SUNBURY - L

FLORIDA DESIGN CRITERIA
REVISED 05-03-07

BUILDING DATA

FLORIDA BUILDING CODE 2004 : RESIDENTIAL, 2005 and 2006 SUPPLEMENT
FLORIDA BUILDING CODE 2004 : PLUMBING, 2005 and 2006 SUPPLEMENT
FLORIDA BUILDING CODE 2004 : MECHANICAL, 2005 and 2006 SUPPLEMENT
FLORIDA BUILDING CODE 2004 : FUEL GAS, 2005 and 2006 SUPPLEMENT

NATIONAL ELECTRICAL CODE 2005

STRUCTURAL DESIGN PARAMETERS: ASCE 7-2002 (PER FRC 2004 : SECTION R301.2.1.1)

CLASSIFICATION : 2

OCCUPANCY: RESIDENTIAL

BUILDING DESIGN: ENCLOSED

WIND SPEED: 125 MPH - 3 SECOND GUST (FRC 2004 : SECTION R301.2.1.3)

EXPOSURE: B

INTERNAL PRESSURE COEFFICIENT: GCpi = +/- 0.18

IMPORTANCE FACTOR: 1.0

NUMBER OF STORIES: TWO STORY

BUILDING MEAN ROOF HEIGHT: 25 FEET, MAX.

WOOD FRAMING INSPECTION
ALL PLUMBING, ELECTRICAL AND MECHANICAL ROUGH-INS MUST BE COMPLETE, INSPECTED AND APPROVED BEFORE REQUESTING THE FRAMING INSPECTION.

TERMITE TREATMENT
THE BUILDING AND PATIO SLAB HAVE RECIEVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.
(FRC 2004, SECTION R320)

BORA CARE : TERMITE TREATMENT
THE BUILDING HAS RECIEVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.
(FRC 2004, SECTION R320.1.8)

EXTERIOR WINDOWS AND GLASS DOORS
EXTERIOR WINDOWS AND GLASS DOORS SHALL BE TESTED BY AN APPROVED INDEPENDENT TESTING LABORATORY, AND SHALL BE LABELED WITH AN APPROVED LABEL
(FRC 2004, SECTION R613)

SEE MANUFACTURER'S DETAIL SHEETS FOR DESIGN CRITERIA AND INSTALLATION METHODS.

WINDBOURNE DEBRIS REGIONS
WINDOWS IN BUILDINGS LOCATED IN WIND-BOURNE DEBRIS REGIONS SHALL HAVE GLAZED OPENINGS PROTECTED FROM WIND-BOURNE DEBRIS. GLAZED OPENING PROTECTION FOR WIND-BORNE DEBRIS SHALL MEET THE REQUIREMENTS OF THE LARGE MISSILE TEST OF ASTM E 1996 AND OF ASTM E 1886, SSTD 12, ANSI/DASMA 115 (FOR GARAGE DOORS) OR TAS201, 202 AND 203 .
(FRC 2004, SECTION R301.2.1.2)

INDEX OF DRAWINGS

SHEET NO.	TITLE
ARCH - ARCHITECTURALS	
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2	FOUNDATION PLAN
3	FIRST FLOOR PLAN
W1	WINDOW & LINTEL SCHEDULE
3A	INTERIOR ELEVATIONS AND DETAILS
CSU	BUILDING SECTION [AS REQ'D]
4	SECOND FLOOR PLAN
RS1	ROOF SHEATHING
MIPS - FLOOR TRUSS PANELS	
FT2	SECOND FLOOR FRAMING
MIPS - WALL PANELS	
WP2	WALL PANELS
WP2.1	WALL PANELS [AS REQ'D]
WP3	WALL PANELS [AS REQ'D]
MIPS - ROOF TRUSS ENGINEERING	
TR1	ROOF TRUSS INFO
MECH - ELECTRICAL	
EL1	ELECTRICAL FIRST FLOOR
EL1A	ELECTRICAL DETAILS
EL2	ELECTRICAL SECOND FLOOR
MECH - HVAC	
HVA	HVAC REGISTER LAYOUT
ISO-H	HVAC ISOMETRIC
MECH - PLUMBING	
FP1	PLUMBING UNDERGROUND PLAN
ISO-P	DWV PLUMBING ISOMETRIC
ISO-W	CPVC WATER ISOMETRIC
ARCH - STANDARD DETAILS	
FTG	STANDARD DETAILS - FOOTINGS
WS-#'s	STANDARD DETAILS - WALL SECTION
SD1	STANDARD DETAILS
SDD	STANDARD DETAILS - DOORS
SDW	STANDARD DETAILS - WINDOWS
SDH	STANDARD DETAILS - HEATING
STR	STAIR DETAILS

COLUMBIA COUNTY BUILDING DEPARTMENT
Received for FILE COPY
Code Compliance
PLANS EXAMINER

WOOD TRUSS

REVISIONS :

08-14-07 REV. CODE INFORMATION

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

9TM00801 JAX
9TM
8-1

FLORIDA.
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA BUILDING CODE 2004 RESIDENTIAL AND 2005, 2006 SUPPLEMENT. FOR 125 MPH 3 SECOND GUST, HD.EXPOSURE B, ENCLOSED BUILDING. ALL CONNECTORS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS.

P:\V\houses_05\sunbury\v25r\sunl-125r.000

AMERICANA | COVER SHEET
SUNBURY
ELEVATION "L"

DRAWN BY: | GARAGE: LFT | 125 MPH
RELEASE DATE: 04-04-06

Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158

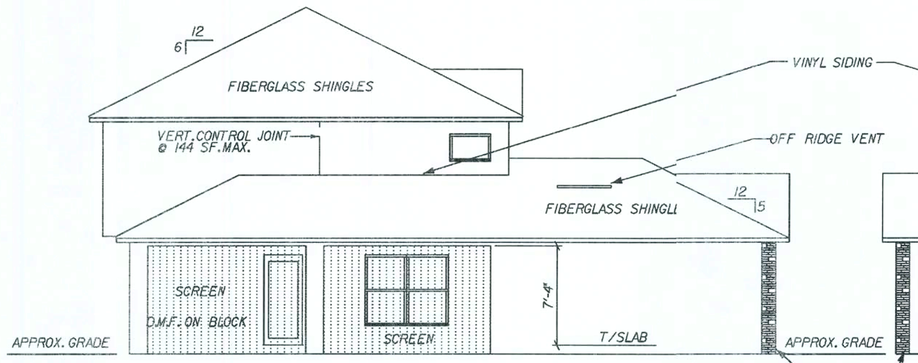
MAY 02 2008

SHEET:
0 L

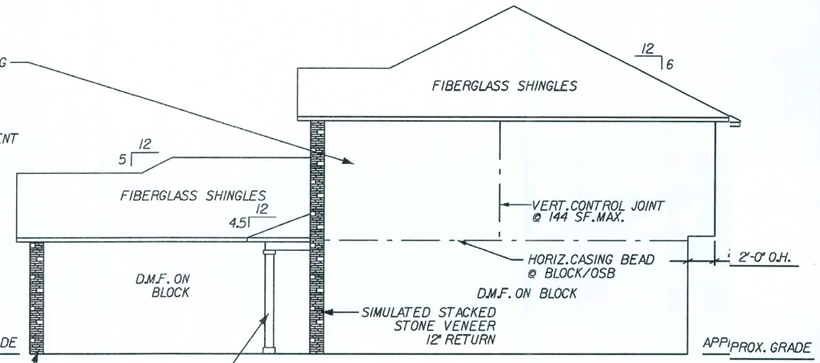
PLOT DATE: 22 FEB 2008
13:12:55

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

CC

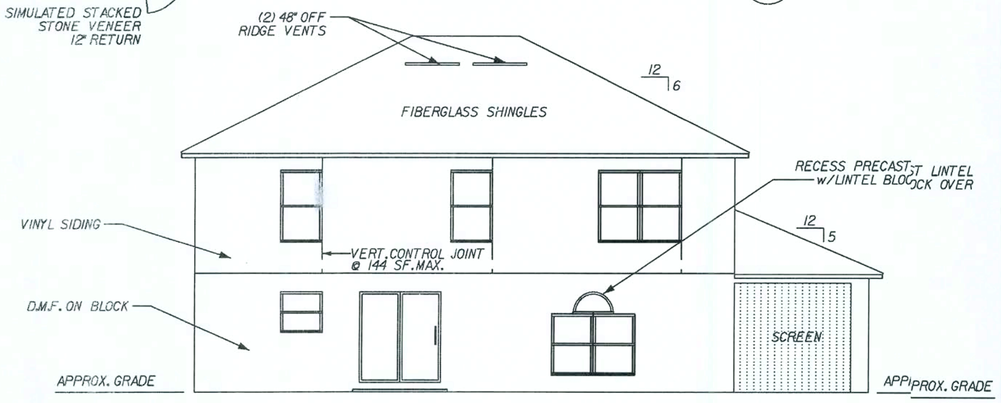


LEFT ELEVATION (C)
SCALE : 1/8" = 1'-0"

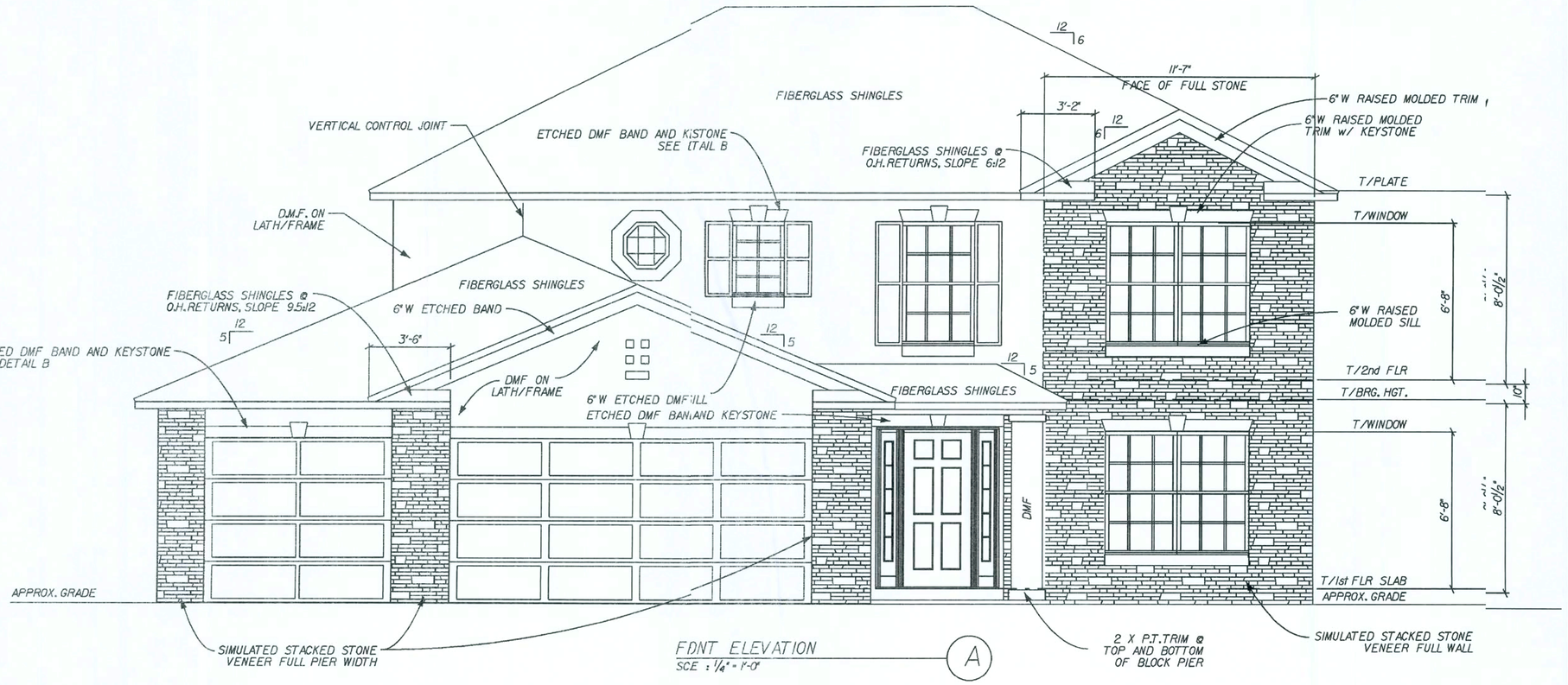


RIGHT ELEVATION (D)
SCALE : 1/8" = 1'-0"

SIMULATED STACKED STONE VENEER 12" RETURN



REAR ELEVATION (B)
SCALE : 1/8" = 1'-0"

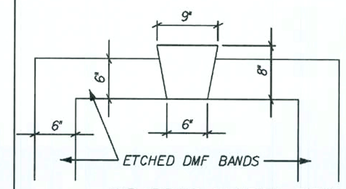


FRONT ELEVATION (A)
SCE : 1/4" = 1'-0"

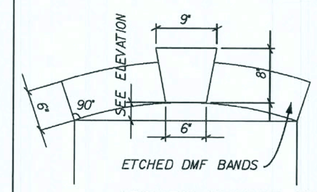
GENERAL ELEVATION NOTES:

REVISED 01-05-06

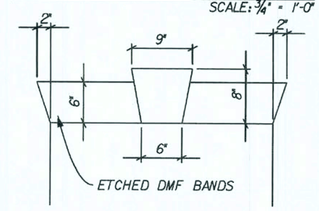
1. DMF - DECO MASONRY/STUCCO FINISH SHALL COMPLY WITH THE REQUIREMENTS OF ATSM C926 AND C1063.
2. EAVE & GABLE OVERHANGS 12" ALUM FASCIA AND SOFFITS. PLUMB CUT WITH LEVEL RETURNS.
3. 7/8" MIN. THICKNESS DMF OVER LATH/FRAME AND 1/2" MIN. THICKNESS OVER BLOCK
4. DMF/STUCCO INSTALLED OVER PAPER-BACKED LATH AND HOUSEWRAP @ ALL EXTERIOR WOOD FRAME CONSTRUCTION.



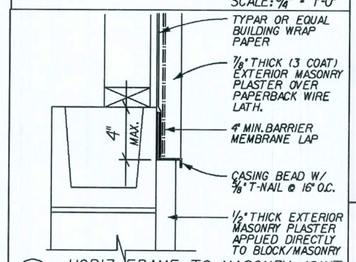
WRAPPED WINDOW TRIM
SCALE: 3/4" = 1'-0"



ARCHED HEADER TRIM
SCALE: 3/4" = 1'-0"



STRAIGHT HEADER TRIM
SCALE: 3/4" = 1'-0"



1 HORIZ. FRAME TO MASONRY JOINT
REVISED 12-11-06 SCALE: N.T.S.

REVISIONS :

06-12-06	ADD 12" STONE RETURNS
08-01-06	REV. STUCCO DETAIL
08-08-06	REV. RAISED TRIM
11-10-06	RELEASE FOR PRODUCTION
12-05-06	REV. ROOF RETURNS
09-21-07	DEL VINYL SIDING
11-01-07	REV. RAISED MOLDED TRIM NOTE

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA: THIS STRUCTURE WAS DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND 2006 SUPPLEMENT

AMERICANA — EXT. ELEVATION

SUNBURY

ELEVATION "L"

DRAWN BY: GARAGE: LEFT

RELEASE DATE: 04-04-06

Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158

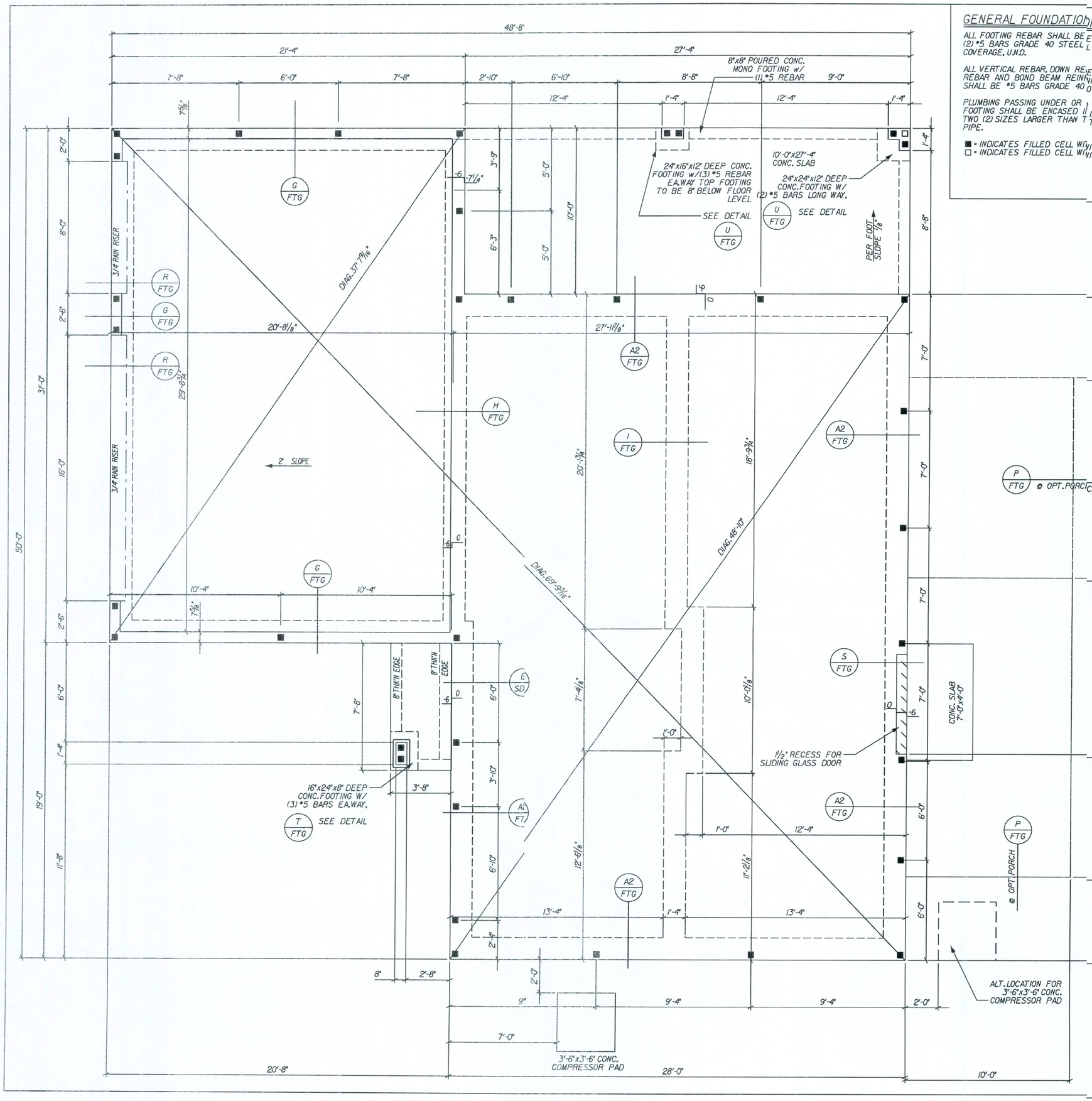
MAY 02 2008

SHEET: 1L

PLOT DATE: 22 FEB 2008 13:12:57

p:\f\houses_05\sunbury\std\sunl-r.001

FLORIDA BUILDING CODE 2004 : RESIDENTIAL



GENERAL FOUNDATION NOTES:

ALL FOOTING REBAR SHALL BE CONTINUOUS (2) #5 BARS GRADE 40 STEEL w/ 3" MIN. COVERAGE. U.N.O.

ALL VERTICAL REBAR, DOWEL REBAR, DOWEL REBAR AND BOND BEAM REINFORCEMENT SHALL BE #5 BARS GRADE 40 STEEL

PLUMBING PASSING UNDER OR THROUGH A FOOTING SHALL BE ENCASED IN A PIPE TWO (2) SIZES LARGER THAN THE PLUMBING PIPE.

■ = INDICATES FILLED CELL WITH REBAR
□ = INDICATES FILLED CELL WITHOUT REBAR

ALL CONCRETE GROUTED CELLS FILLED w/ 3000 psi CONCRETE SHALL BE CLEAR UNOBSTRUCTED CONTINUOUS 3" x 3" MIN. CELLS w/ (1) #5 BAR GRADE 40 STEEL TIED AT FOOTING LINTEL STEEL. PROVIDE INSPECTION HOLE AT BOTTOM OF GROUTED CELL STACK.

TYPICAL CONCRETE SLAB: 3 1/2" DEEP POURED 2500 psi CONCRETE SLAB w/ 6x6 10/ WIRE OR FIBER MESH ON VISQUEEN VAPOR BARRIER w/ ALL JOINTS TAPED OVER CLEAN COMPACTED (2000 psf, MIN.) TERMITE TREATED FILL.

FOR INSTALLATION OF GROUND ROD, SEE TYP.CONC.ENCASED ELECTRODE DETAIL SHEET* FTG

SEE DRAWING * FPI FOR UNDERGROUND PLUMBING AND MECH. CHASES FOR LOCATIONS

REVISIONS :

08-14-07 REV. CODE INFORMATION

Maronda Homes

(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA BUILDING CODE 2004, RESIDENTIAL AND ADDS 2006 SUPPLEMENT FOR 125 MPH 3 SEC. GUST, HD. EXPOSURE B, ENCLOSED BUILDING. ALL CONNECTORS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS.

D:\Houses_05\sunbury\125r\sunl-125r.002

AMERICANA

FOUNDATION PLAN

SUNBURY

ELEVATION "L"

DRAWN BY:

GARAGE: LEFT

125 MPH

RELEASE DATE: 04-04-06

13:12:59

PLOT DATE: 22 FEB 2008

Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158

MAY 02 2008

SHEET:

2 L

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

GENERAL FIRST FLOOR NOTES:

REVISED 10-10-07

ALL EXTERIOR WALLS SHALL BE CONSIDERED SHEAR WALLS MINUS ALL WINDOW AND DOOR OPENINGS.

EXTERIOR WALLS TO BE 7⅝" CONCRETE BLOCK w/ P.T.FURRING STRIPS IN A/C AREA, TOTAL WIDTH = 8⅜"

EXTERIOR OPENING DIMENSIONS ARE TO FACE OF MASONRY OPENING.

INTERIOR LOAD BEARING WALLS TO BE 2x4 WOOD FRAME WALLS w/ STUDS @ 16" O.C., SEE STRUCTURAL WALL SCHEDULE SHEET # TR1

INTERIOR NON-LOAD BEARING WALLS TO BE NOMINAL 3⅝" MTL STUD, 25 ga., U.N.O.

ALL WOOD NOT SEPERATED FROM AND/OR IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE "PRESSURE TREATED WOOD"

SEE LINTEL SHEET FOR LINTEL SIZES OVER WINDOWS AND DOORS. PRECAST LINTELS BY CAST-CRETE.

ALL COMPOSITE BEAMS OVER WINDOW AND DOOR OPENINGS ARE TO BE 8" NOMINAL WIDTH AND 16" NOMINAL HEIGHT, U.N.O. THE 16" NOMINAL HEIGHT SHALL CONSIST OF AN 8" TOP COURSE (BOND BEAM BLOCK) FILLED w/ 3000 psi CONCRETE w/ (1) GRADE 40 CONTINUOUS HORZ. #5 REBAR AND AN 8" HIGH STRENGTH PRECAST LINTEL LOWER COURSE WHICH SHALL BE UNFILLED. U.N.O. FOR FILLED PRECAST LINTELS, USE 3000 psi CONCRETE w/ ⅜" AGGREGATE. FOR REINFORCED PRECAST LINTELS, USE GRADE 40 REINFORCING STEEL.

PROVIDE SAFETY GLAZING AT: [T] = TEMPERED
- ALL WINDOWS OVER BATH TUBS.
- ALL WINDOWS WITHIN 24" OF A DOOR SWING.
- ALL SLIDING GLASS DOORS.
- ALL FIXED GLASS LITES OVER 30 SQ.FT.
- ALL LITES WITHIN 18" OF THE FLOOR AND INDIVIDUAL PANE GREATER THAN 9 SQ.FT.
- ALL SHOWER ENCLOSURES.

PROVIDE AFCIs (arc-fault circuit interrupters) IN ALL DWELLING UNIT BEDROOMS PER NEC, SECTION 210-12.

THE A/C DISCONNECT WILL BE LOCATED WITHIN 3 FEET OF THE COMPRESSOR.

SEE SHEET # WL1 FOR WINDOW AND LINTEL SCHEDULES AND DETAILS

PROVIDE HEADER w/ (1) 2x4 JACK AND (1) 2x4 STUD, EACH SIDE OF OPENING (NO STRAPPING REQUIRED, U.N.O.) HDR TO BE NO.2 SYP SEE PLAN FOR SIZE

ALL DRYWALL TO BE ½" THICK, U.N.O.

SC DOOR = MIN. 1⅜" THICK SOLID CORE DOOR

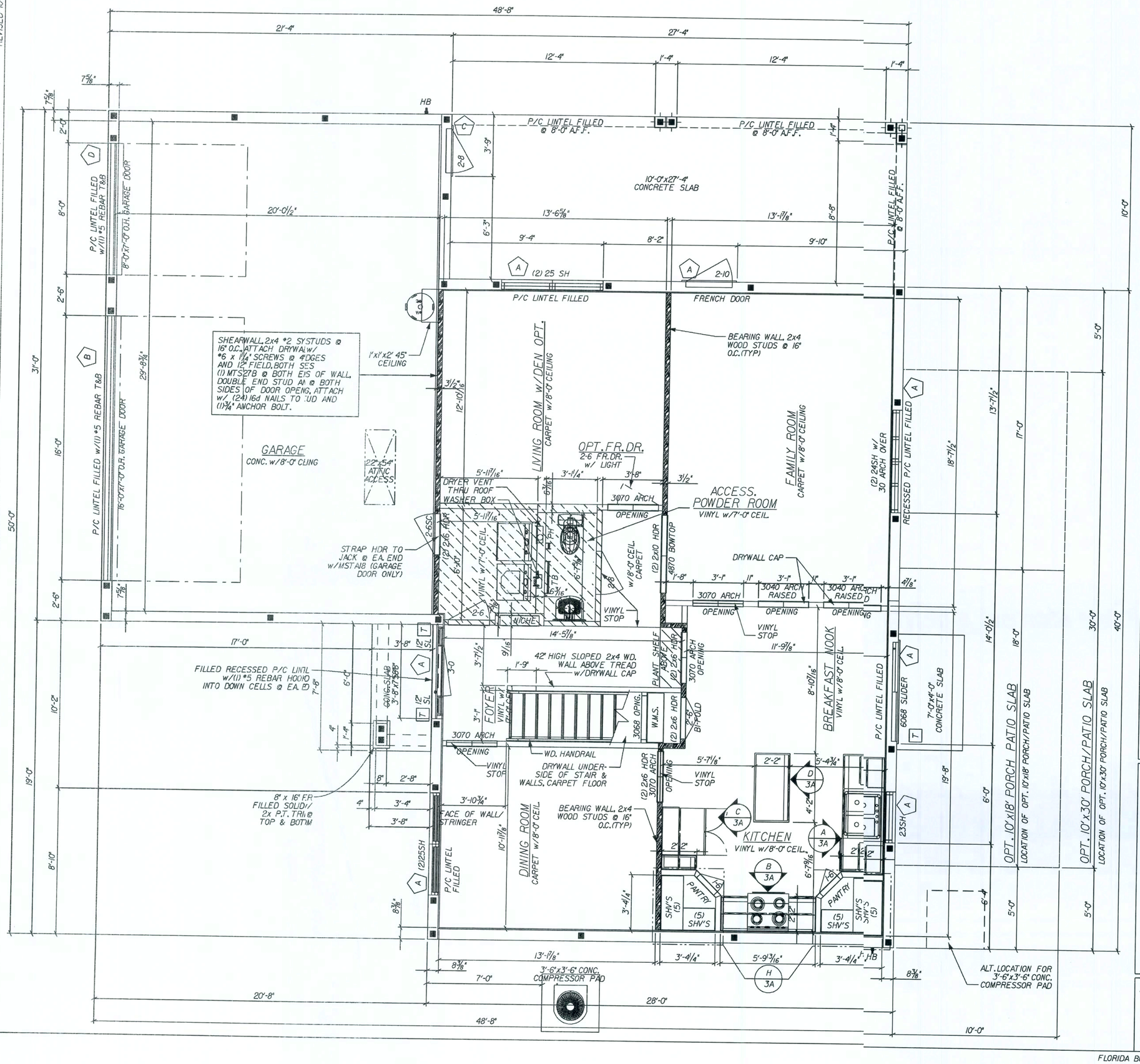
SQUARE FOOTAGE:

1st FLOOR LIVING	1120	SQ.FT.
2nd FLOOR LIVING	1103	SQ.FT.
TOTAL LIVING	2223	SQ.FT.
GARAGE AREA	647	SQ.FT.
COVERED ENTRY	24	SQ.FT.
PORCH AREA	273	SQ.FT.
TOTAL AREA	3167	SQ.FT.

OPENING PRESSURES 125mph:

A: +28.1 / -30.5	B: +23.7 / -27.6	E: +24.2 / -27.1	REVISED 09-12-07
C: +28.1 / -37.6	D: +24.9 / -29.7		

ALL SWING DOORS IN BLOCK USE 2x DOOR BUCK DETAIL D/SD-D



REVISIONS :
12-14-06 REV. SERVICE DOOR SWING
08-14-07 REV. CODE INFORMATION

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Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA, THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE FLORIDA RESIDENTIAL CODE, 2004 EDITION AND 2005, BUILDING CODE, 2004 RESIDENTIAL AND 2005, 2006 SUPPLEMENT FOR 125 MPH - 3 SEC. GUST, HIGH EXPOSURE B, ENCLOSED BUILDING. NO MODIFICATIONS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS.

P:\7\N2U585_05\sunbury\125\SUN-125r.D03

AMERICANA | FIRST FLOOR PLAN

SUNBURY

ELEVATION "L"

DRAWN BY: | GARAGE: LEFT
RELEASE DATE: 04-04-06 | 125 MPH

13:13:01

Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158

MAY 02 2008

SHEET:
3 L

PLOT DATE: 22 FEB 2008

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

FASTENERS SCHEDULE USING 3/16" X 2 1/4" TAPCONS THROUGH BUCK INTO BLOCK

NOTE 1) 1/2 WIDE: 2 FASTENERS IN HEADER-JAMB
NOTE 2) 2 WIDE: 2 FASTENERS IN HEADER-JAMB
NOTE 3) 3 WIDE: 3 FASTENERS IN HEADER-JAMB
NOTE 4) 2 HIGH: 2 FASTENERS IN EA. SIDE JAMB
NOTE 5) 3,4,OR 5 HIGH: 3 FAST. EA. SIDE JAMB
NOTE 6) 6 HIGH 26 3/4": 4 FASTENERS IN EACH SIDE JAMB
NOTE 7) 438 WINDOW INTO FRAME OPENING: #10 X 1 3/4" SCREWS
NOTE 8) SGD FASTENED WITH: #10 1 3/4": PANHEAD ALL HOLES SILLS 3/16" X 1 3/4" ANCHORS EVERY HOLE

WINDOW NOTES

F.O. WIDTH IS FROM JACK TO SILL.
F.O. HEIGHT IS FROM SILL TO BEAM.
M.O. WIDTH IS FROM BLOCK TO BLOCK.
M.O. HEIGHT IS FROM LIP OF SILL TO PRECAST.
1st. DIMENTION IS ALWAYS WIDTH.
UNIT OF MEASURE IS INCH.

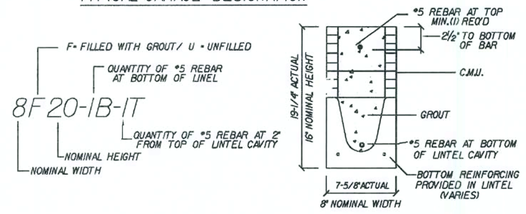
ATTENTION

SCHEDULES FOR NORANDEX WINDOW FASTENERS AND CAST-CRETE LINTELS AS SHOWN, ARE TAKEN DIRECTLY FROM TABLES SUPPLIED BY THE RESPECTIVE MANUFACTURERS. AND ARE PROVIDED FOR CONVENIENCE ONLY.

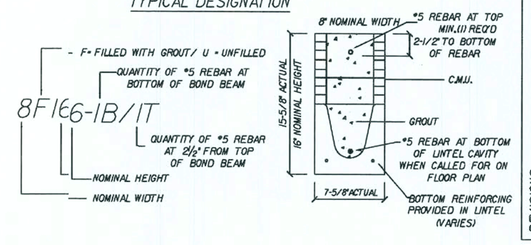
MATIRIALS

1. f'c pcast lintels = 3500 psi.
2. f'c pstressed lintels = 6000 psi.
3. f'c gut = 3000 psi w/ maximum 3/8" agregate.
4. Concte masonry units (CMU) per AST C90 w/minimum net area compissive strength = 1900 psi.
5. Rebarprovided in precast lintel per ASTM A615 GR60. Field rebar per ASTM A615 GR40 or GR60.
6. Prestressing strand per ASTM A416 grad270 low relaxation.
7. 7/32 wire per ASTM A510.
8. Mortarer ASTM C270 type M or S.

TYPICAL GARAGE DESIGNATION



TYPICAL DESIGNATION



REVISED 12/29/04

NORANDEX SERIES (MO)437-(FO)438 WINDOW SIZE CHART

SERIES 500/502 SGD DOOR OPENINGS

SIZE	M.O.	FAST.		SIZE	M.O.	FAST.	
6068	75 1/2 X 81 3/4	8		6080	75 1/2 X 97 3/4	8	

SERIES (MO)437 - (FO)438 OPENINGS

SIZE	SINGLE M.O.	FAST.	DOUBLE M.O.	FAST.	SIZE	SINGLE F.O.	FAST.	DOUBLE F.O.	FAST.
					1H3	26 X 37 7/8	7		
23	37 3/4 X 38 1/4	2,5							
25	37 3/4 X 63	2,5	74 3/4 X 63	2,5	25	36 1/2 X 62 1/2	7	73 1/4 X 62 3/8	7
					3020	36 3/8 X 25 3/8	7		

HALF ROUND MULLED TO UNIT - SERIES (MO)437 - (FO)438 OPENINGS

SIZE	SINGLE M.O.	FAST.
(2) 24 w/ 3'-0" CT	74 3/4 X 71	2,5,7

SPECIALTY WINDOWS - SERIES (MO)437 - (FO)438 OPENINGS

SIZE	SINGLE F.O.	FAST.
1-8 SL	19 3/8 X 59 3/8	7
3624 FIXED	35 1/2 X 23 1/2	7

OCTAGON

SIZE	SINGLE F.O.	FAST.
24"	23 1/2 X 23 1/2	7

THE SPECIFIED LINTELS ON SHEET WL1 ARE MANUFACTURED BY CAST-CRETE CORP. ALTERNATE MANUFACTURED LINTELS ARE AVAILABLE "BY OTHERS". SOLE AND FULL RESPONSIBILITY IS RETAINED BY THE SUB-CONTRACTOR IN THE SELECTION OF THE ALTERNATE LINTELS AS HAVING EQUAL TO OR GREATER THAN THE ACTUAL GRAVITY AND UPLIFT LOADS, THAT ARE LISTED ON THIS HOUSE SPECIFIC WL1 LINTEL SCHEDULE.

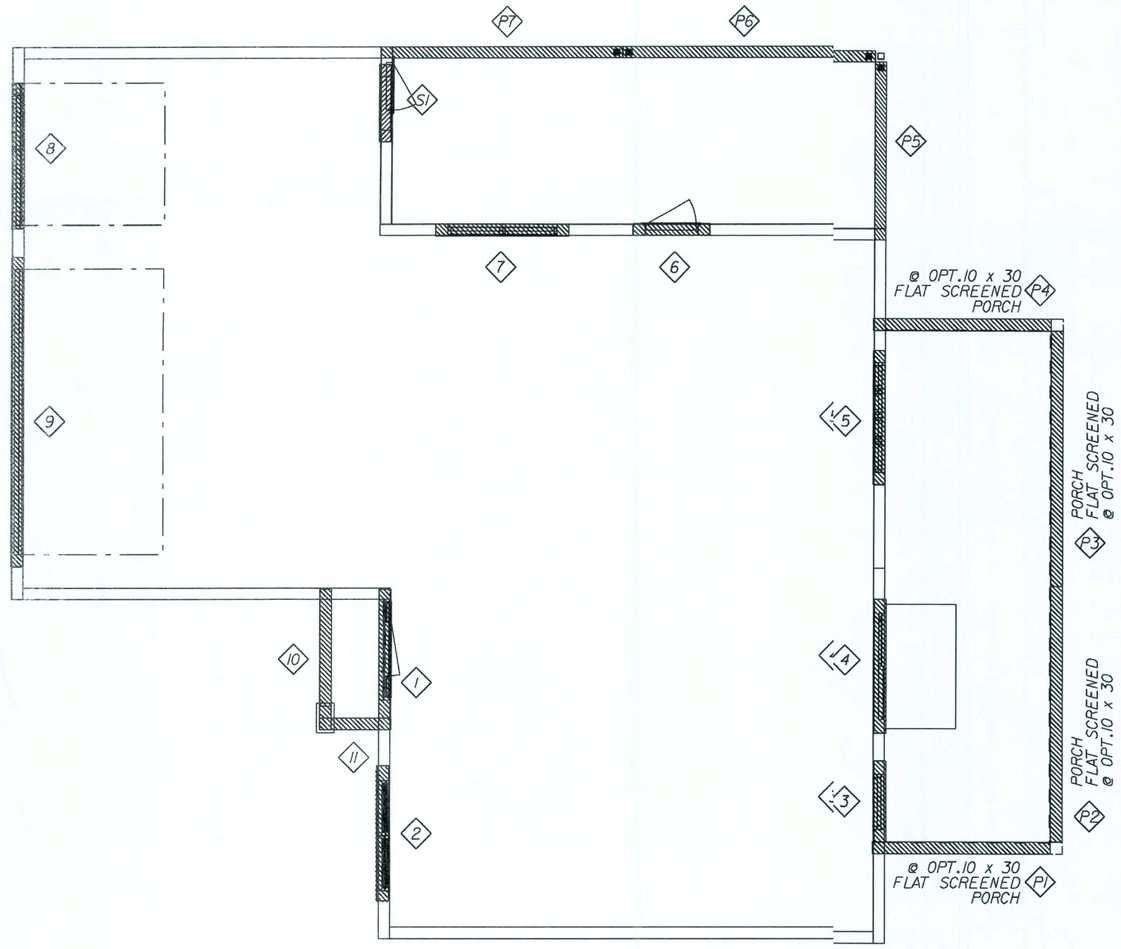
REVISED 04-02-07

CAST-CRETE LINTEL SCHEDULE

LINTEL NO.	LENGTH	TYPE	APPLIED LOADS (PLF) GRAVITY	APPLIED LOADS (PLF) UPLIFT	SAFE LOADS GRAVITY	SAFE LOADS UPLIFT	COMMENT
1	7'-0"	8RF14-0B/IT	147	146	2495	1962	RECESSED
2	7'-6"	8U16-0B/IT	147	146	2632	1634	-
3	4'-6"	8U16-0B/IT	147	146	1599	2724	-
4	7'-6"	8F16-0B/IT	147	146	2632	1634	-
5	7'-6"	8RF14-0B/IT	147	146	2459	1962	RECESSED
6	4'-6"	8RF14-0B/IT	883	419	2992	1962	RECESSED
7	7'-6"	8F16-0B/IT	883	419	2632	1634	-
8	9'-4"	8F20-1B/IT	147	151	2564	1471	GARAGE DOOR
9	17'-4"	8F20-1B/IT	147	151	1326	520	GARAGE DOOR

CAST-CRETE LINTEL SCHEDULE

LINTEL NO.	LENGTH	TYPE	APPLIED LOADS (PLF) GRAVITY	APPLIED LOADS (PLF) UPLIFT	SAFE LOADS GRAVITY	SAFE LOADS UPLIFT	COMMENT
10	7'-6"	8F8-0B/IT	90	155	669	1462	@ F. PORCH
11	4'-0"	8F8-0B/IT	30	31	2561	1363	@ F. PORCH
S1	4'-6"	8U16-0B/IT	100	200	1495	2635	-
P1	10'-6"	8F8-0B/IT	533	429	535	530	@ OPT. PORCH
P2	14'-8"	8F8-0B/IT	109	184	458	239	@ OPT. PORCH
P3	14'-8"	8F8-0B/IT	109	184	458	239	@ OPT. PORCH
P4	10'-6"	8F8-0B/IT	533	429	535	530	@ OPT. PORCH
P5	10'-0"	8F8-0B/IT	533	429	535	914	SIDE PORCH
P6	14'-0"	8F8-0B/IT	109	184	424	384	SIDE PORCH
P7	14'-0"	8F8-0B/IT	109	184	424	384	SIDE PORCH



REVISIONS :

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA BUILDING CODE 2004, RESIDENTIAL AND 2005, 2006 SUPPLEMENT FOR 125 MPH, 3 SEC. GUST WIND EXPOSURE B. BUILDER DRAWING. ALL CONNECTORS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS.

WINDOW/LINTEL

AMERICANA

SUNBURY

ELEVATION "L"

GARAGE: LEFT

125 MPH

DRAWN BY:

RELEASE DATE: 04-04-06

Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158

MAY 02 2008

SHEET:

WL1 L

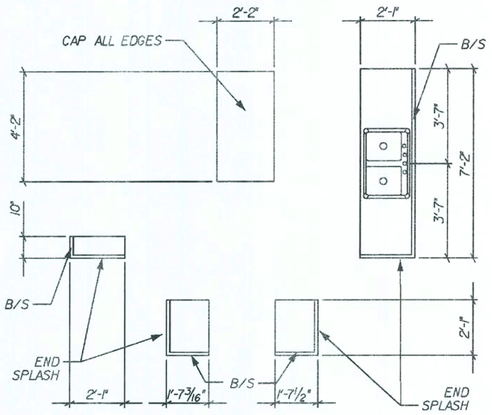
PLOT DATE: 22 FEB 2008

13:1301

08-14-07 REV. CODE INFORMATION

p:\houses_05\sunbury\125\sun-125rwll

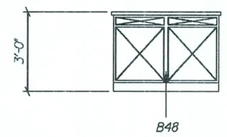
FLORIDA BUILDING CODE 2004 : RESIDENTIAL



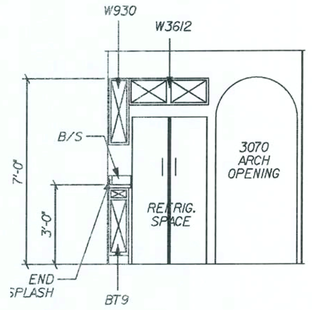
KITCHEN COUNTER TOP PLAN

FOR COUNTER TOP CONSTRUCTION ONLY. NOT FOR FIELD USE

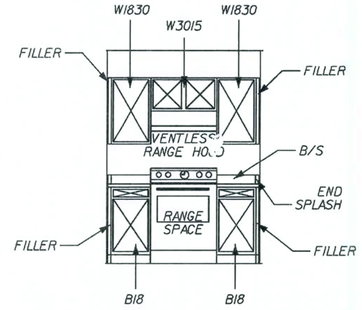
LAMINATE TOP:
ON REAR FACE OF ISLAND CABINETS INSTALL 1/4" VENEER PANEL OVER 1/4" PLYWOOD BACKER w/ (2) OUTSIDE CORNER PEICES.



D KITCHEN ELEVATION



C KITCHEN ELEVATION



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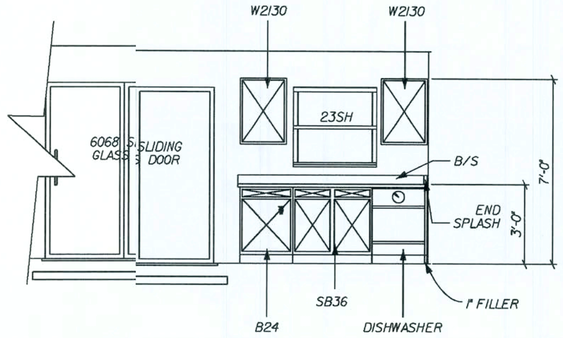
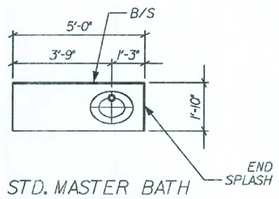
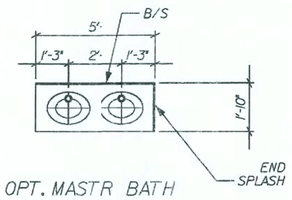


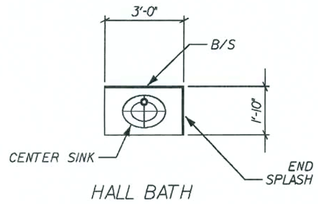
A KITCHEN ELEVATION



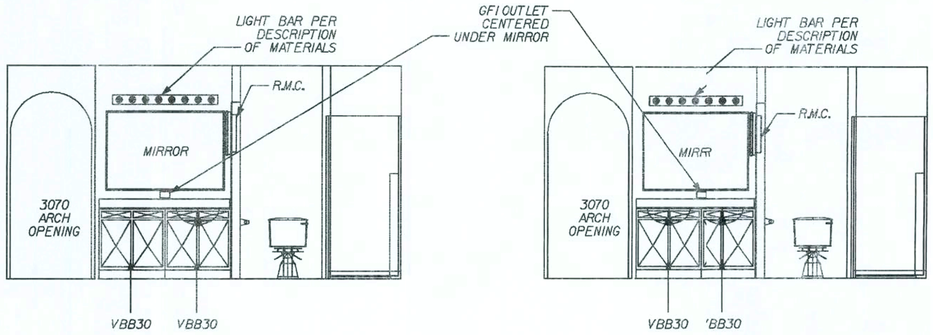
STD. MASTER BATH LAV. TOP PLAN



OPT. MASTR BATH LAV. TOP PLAN

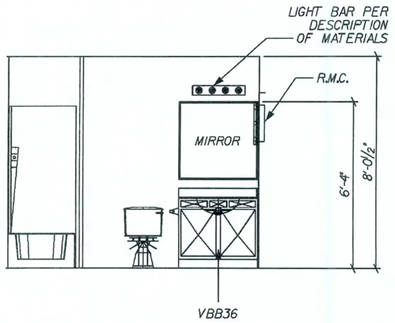


HALL BATH LAV. TOP PLAN

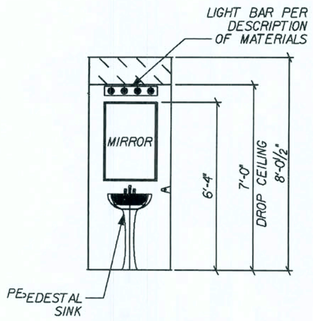


G STANDARD MASTER BATH ELEVATION

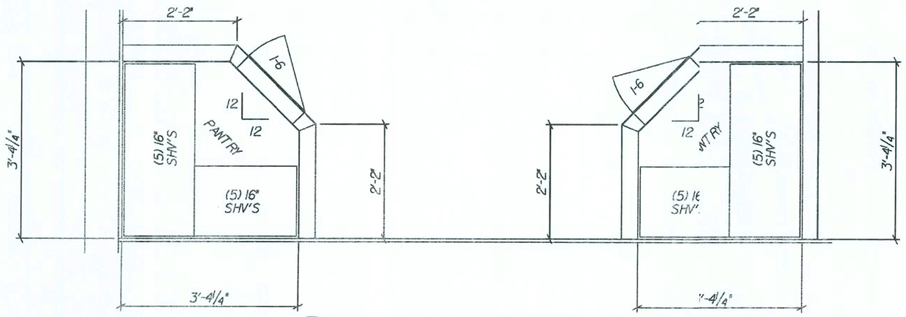
G OPTIONAL MATER BATH ELEVATION



F HALL BATH ELEVATION



E ACCESS POWDER ROOM ELEVATION



H ENLARGED PANTRY PLAN

REVISIONS :

09-12-06 REV. KITCHEN CABINETS/FILLERS

Maronda Homes

(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND 2005, 2006 SUPPLEMENT

AMERICANA INTERIOR ELEVATIONS

SUNBURY-NEWBERRY

GARAGE: LEFT

DRAWN BY:

RELEASE DATE: 10-08-04

D:\houses_05\sunbury\std\sun-r.03a

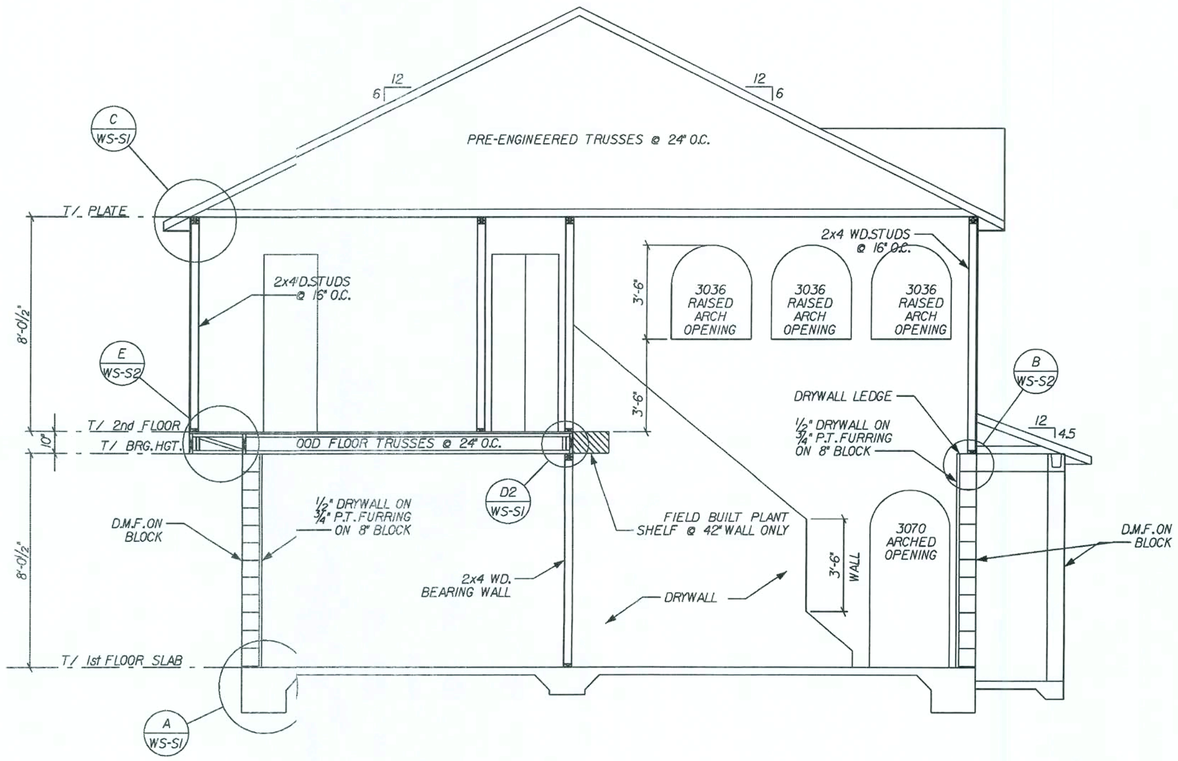
13:13:02

PLOT DATE: 22 FEB 2008

SHEET:

3A

FLORIDA BUILDING CODE 2004 : RESIDENTIAL



A CROSS SECTION

REVISIONS :

02-15-06 REV. WOOD TRUSS FLOOR FRAM'G

08-24-07 REV. OPNG SIZE 3038 -> 3036

Maronda Homes

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FLORIDA:
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AMERICANA

BLD. CROSS SECTION

SUNBURY

ELEVATION - G, L, M, R

DRAWN BY:

GARAGE: LEFT

RELEASE DATE: 10-08-04

pd:\houses_05\sunbury\sfd\sungnr-r.csu

13:13:03

Maronda Systems
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Elmer Bergman, P.E.
License No. 50158

MAY 02 2008

SHEET:

CSU

PLOT DATE: 22 FEB 2008

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

GENERAL SECOND FLOOR NOTES:

ALL EXTERIOR WALLS SHALL BE CONSIDERED SHEAR WALLS MINUS ALL WINDOW AND DOOR OPENINGS.

EXTERIOR WALLS TO BE 4" THICK, CONSISTING OF 2x4 #2 SY.P. STUDS w/ 7/16" OSB SHEATHING, TYPICAL, U.N.O.

EXTERIOR OPENING DIMENSIONS ARE TO FACE OF ROUGH OPENING

NTERIOR NON-LOAD BEARING WALLS TO BE NOMINAL 3 5/8" MTL STUD, 25 ga. U.N.O.

PROVIDE SAFETY GLAZING AT: T = TEMPERED
ALL WINDOWS OVER BATH TUBS.
ALL WINDOWS WITHIN 24" OF A DOOR SWING.
ALL SLIDING GLASS DOORS.
ALL FIXED GLASS LITES OVER 30 SQ.FT.
ALL LITES WITHIN 18" OF THE FLOOR AND IF LARGER THAN 9 SQ.FT.
ALL SHOWER ENCLOSURES.

PROVIDE AFCIs (arc-fault circuit interrupters) IN ALL DWELLING UNIT BEDROOMS PER NEC, SECTION 210-12

ALL BEDROOM WINDOWS ARE CONSIDERED EGRESS UNLESS OTHERWISE NOTED

SEE SHEET * WL FOR WINDOW AND LINTEL SCHEDULES AND DETAILS

OPENING PRESSURES 125mph:

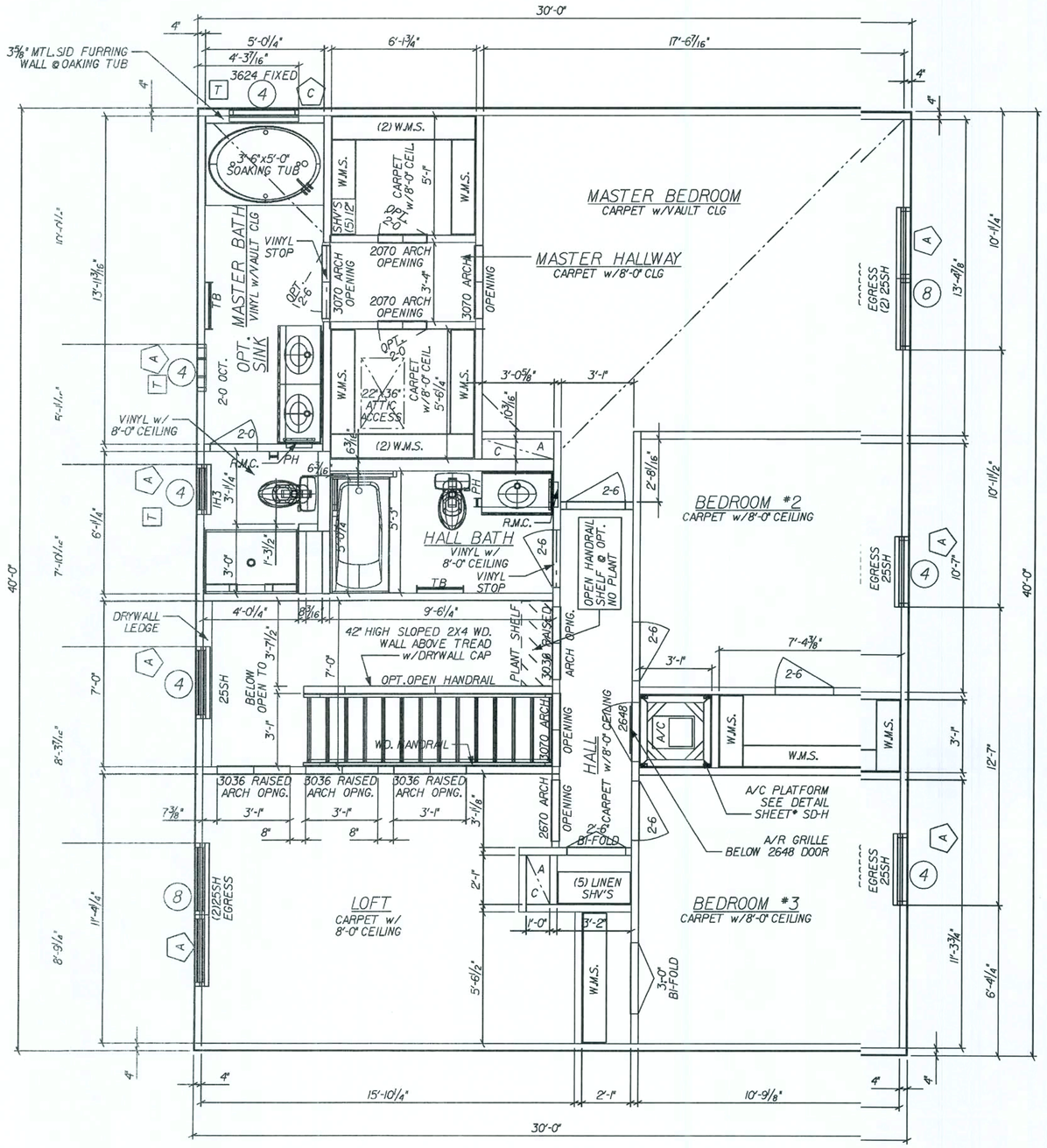
A: +28.1 / -30.5	B: +23.7 / -17.6	E: +24.2 / -27.1
C: +28.1 / -37.6	D: +24.9 / -29.7	

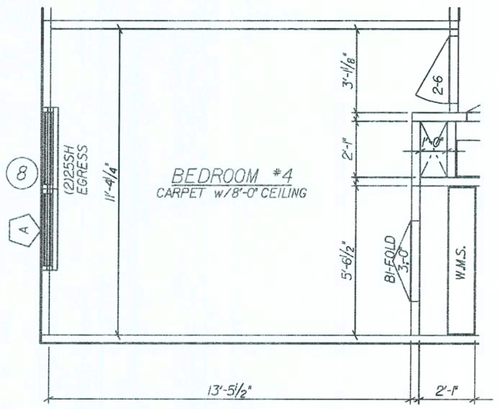
REVISED 09-12-07

TSH WINDOW HEADERS

4	3 1/2" x 4 3/8" TSH
8	3 1/2" x 8 5/8" TSH

REVISED 05-23-07





OPTIONAL 4th BEDROOM
IN LIEU OF LOFT

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

REVISIONS :	
05-16-06	REV. HEADER SIZES
05-17-06	REV. M.B.CLOSETS
03-07-07	REV. HEADERS TO TSH
05-23-07	REV. HEADER
08-24-07	REV. OPNG SIZE 3038 -> 3036
08-14-07	REV. CODE INFORMATION

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA,
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA BUILDING CODE 2004 RESIDENTIAL AND 2005, 2006 SUPPLEMENT FOR 125 MPH - 3 SEC. GUST, HID.EXPOSURE B, ENCLOSED BUILDING. ALL CONNECTORS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS.

AMERICANA | SECOND FLOOR PLAN

SUNBURY

ELEVATION "L"

GARAGE: LEFT

DRAWN BY:

RELEASE DATE: 04-04-06

125 MPH

13HJ305

P:\FNhouses_05\sunbury\125r\sunl-125r.004

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4005 Maronda Way
Sanford, FL 32771
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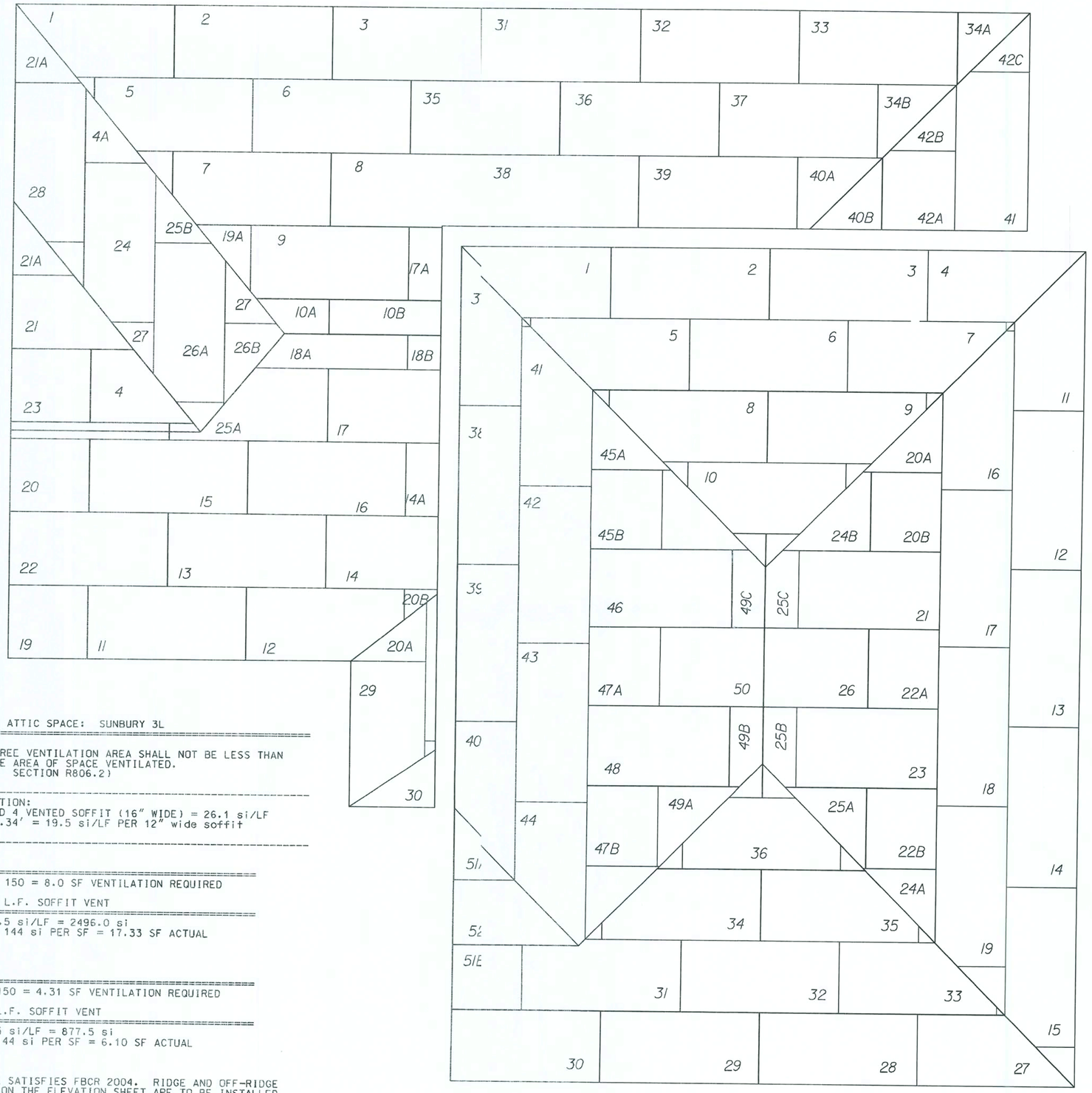
Elmer Bergman, P.E.
License No. 50158

MAY 02 2008

SHEET:
4 L

PLOT DATE: 22 FEB 2008



VENTILATION OF ATTIC SPACE: SUNBURY 3L

REQUIREMENTS:
TOTAL NET FREE VENTILATION AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF SPACE VENTILATED.
(FBCR 2004. SECTION R806.2)

SOFFIT VENTILATION:
ALSCO - QUAD 4 VENTED SOFFIT (16" WIDE) = 26.1 si/LF
26.1 si / 1.34' = 19.5 si/LF PER 12" wide soffit

CALCULATIONS:
MAIN ROOF

1200 SF / 150 = 8.0 SF VENTILATION REQUIRED

SOFFIT: 128 L.F. SOFFIT VENT

128 LF @ 19.5 si/LF = 2496.0 si
2496.0 si / 144 si PER SF = 17.33 SF ACTUAL

GARAGE ROOF

647 SF / 150 = 4.31 SF VENTILATION REQUIRED

SOFFIT: 45 L.F. SOFFIT VENT

45 LF @ 19.5 si/LF = 877.5 si
877.5 si / 144 si PER SF = 6.10 SF ACTUAL

NOTE:
SOFFIT ALONE SATISFIES FBCR 2004. RIDGE AND OFF-RIDGE VENTS SHOWN ON THE ELEVATION SHEET ARE TO BE INSTALLED AND ACT AS INCREASED VENTILATION ABOVE AND BEYOND THE CODE REQUIREMENTS.

GENERAL ROOF NOTES:
7/16" OSB SHT'G w/ 8d RING/SCREW SHANK NAIL (AS PER R803.2.3.1) 4" O.C. EDGE & 6" O.C., FIELD, (3" O.C. @ GABLE END TRUSS) w/ CLIPS ON PRE-ENGINEERED TRUSSES @ 24" O.C.

TOTAL ROOF SHEATHING:
52 [MAIN] + 42 [GARAGE] = 94

REVISED 05-07-07

REVISIONS :
06-13-06 REV. ATTIC VENTILATION CALCS.

Maronda Homes
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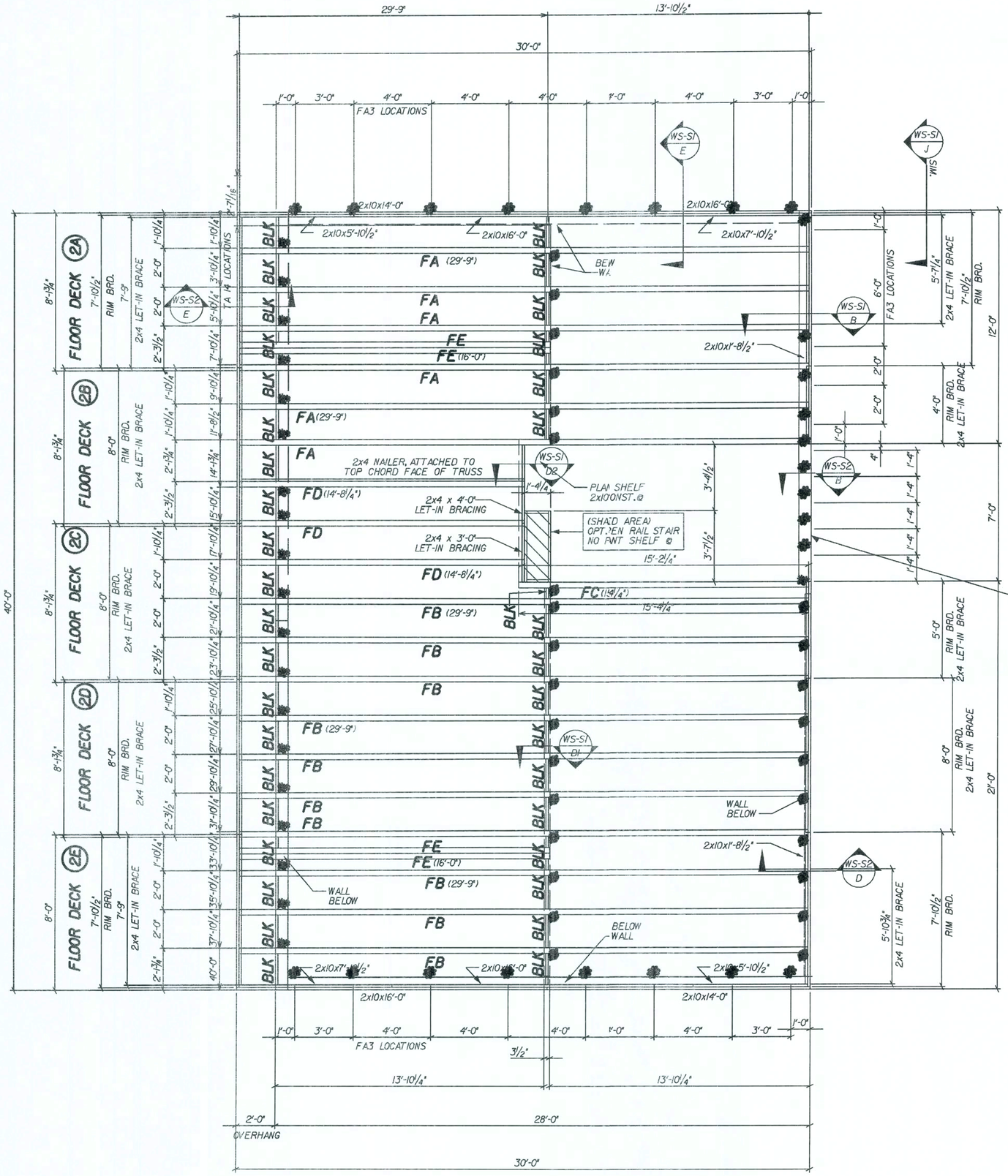
FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND 2006 SUPPLEMENT

AMERICANA
ROOF LAYOUT
SUNBURY
ELEVATION "L"
GARAGE: LEFT
DRAWN BY:
RELEASE DATE: 04-04-06
13:13:05

SHEET:
RS1L

PLOT DATE: 22 FEB 2008
pat/houses_05\sunbury\stdr\sun1-r.rsl

FLORIDA BUILDING CODE 2004 : RESIDENTIAL



ERECTION/INSTALLATION NOTES

WARNING! :

THE ERECTION/INSTALLATION CONTRACTOR SHOULD PROVIDE ADEQUATE RIGGING (CRANE, TAGLINES, SPREADER BARS) FOR SUFFICIENT CONTROL DURING LIFTING AND PLACEMENT TO ASSURE SAFETY TO PERSONNEL AND TO PREVENT DAMAGE TO FLOOR DECK PANELS AND PROPERTY.

NOTE:

ALL FLOOR DECK PANELS UP TO 30': KEEP LINE ANGLE AT CRANING POINTS AT 60° OR LESS.

ALL FLOOR DECK PANELS 30' TO 60': ATTACH FLOOR DECK PANEL TO SPREADER BAR WITH LINES THAT SLOPE INWARD OR "TOE-IN". LINES THAT "TOE-OUT" COULD CAUSE FLOOR DECK PANEL TO BUCKLE.

FLOOR FRAMING NOTES:

9¼" DEEP WOOD FLOOR TRUSSES @ 24" O.C., U.N.O.

2x10 WOOD RIM BOARD

DESIGN LOADS:
TC LIVE LOAD = 40 psf
TC DEAD LOAD = 10 psf
BC DEAD LOAD = 5 psf
TOTAL LOAD = 55 psf

DEFLECTION:
LL = L/360
TL = L/240

ROOF LOADS ASSUMED TO BE BEARING ON PERIMETER WALLS ONLY.

FLOOR SHEATHING:
¾" T&G WOOD DECKING GLUED & NAILED w/ 7d x 2¼" SCREW SHANK NAIL @ 4" O.C. EDGES AND 8" O.C. FIELD (TYP.) or 16ga. x 1⅝" STAPLE @ 2" O.C. EDGES AND 4" O.C. FIELD. SEE SHEET # FD0. GLUE MUST BE INCLUDED IN THE GROOVE OF EACH PANEL AND BTWN SHEATHING AND TRUSSES.

FLOOR CONNECTORS:

- FA3, RIM BOARD CONNECTION DETAIL # B/WS-S1 & LADDER TRUSS CONNECTION DETAIL # E/WS-S1
- TYPICAL ATTACHMENT TO BEARING WALL w/ (2) 10d NAILS, TOE-NAILED. SEE DETAIL D/WS-S1
- BLK SOLID WOOD FIRE BLOCKING SEE DETAIL F/WS-S1.
- LPTA, SEE DETAIL SHEET B/WS-S2
- TA14, SEE DETAIL SHEET E/WS-S2

REVISED 05-02-07 NAIL SPACING

FLOOR FRAMING:

ITEM	DESCRIPTION
RIM BRD.	2 x 10
FA - FD	9¼" WOOD TRUSS

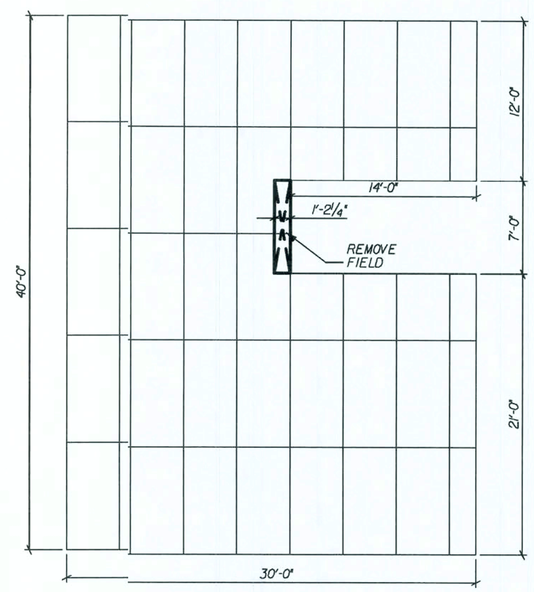
FA3 @ STAIRWAY

ELEVATION G, J, L, M, R, T, V ONLY

ATTACH WALL TO BLOCK w/ FA3 @ 16" O.C.

ELEVATION H, S ONLY

INSTALL NO FA3



38 SHEETS - 4x8 SHEATHING

SECOND FLOOR SHEATHING LAYOUT

REVISIONS :	
09-28-06	ADDED RUNNING DIM'S FOR TA14
02/16/07	CHANGE LPTA'S TO FA3
04-24-07	REMOVED GABLE TRUSS
12-12-07	ADDED FE TRUSSES
12-12-07	ADDED 2x10 FOR ROOF LOAD
3-10-08	REMOVED CRANING BLOCKS
08-14-07	REV. CODE INFORMATION

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA.
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIRE. MENTS OF THE FLORIDA RESIDENTIAL AND 2005. BUILDING CODE: 2004 ; 2006 SUPPLEMENT FOR 125 MPH - 3 SEC. GUST. HIGH EXPOSURE & ENCLOSED BUILDING. ALL CONNECTORS HAVE BEEN CHECKED & FASTENED AS REQUIRED BY THE FLORIDA BUILDING CODE.

g:\mfcc\houses\f1\sunbury\order\ref\sun-125\12

AMERICANA

FRAMING PLAN

SUNBURY

2nd FLOOR FRAMING PLAN

DRAWN BY: J. PITCOCK GARAGE: LEFT

RELEASE DATE: 02/15/07 125 MPH

15:39:57

Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158

MAY 02 2008

SHEET:

FT2

PLOT DATE: 10 MAR 2008

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

WALL STRAP KEY

(UNDER SHEATHING)

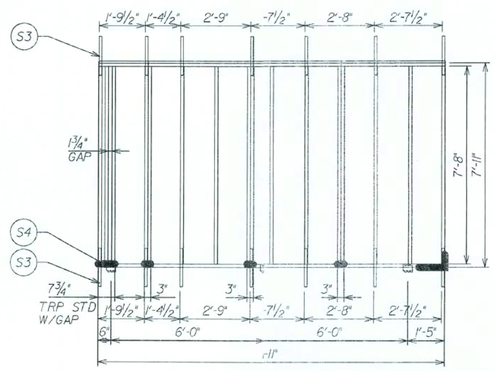
- (S1) - RSPT4

(ON TOP OF SHEATHING)

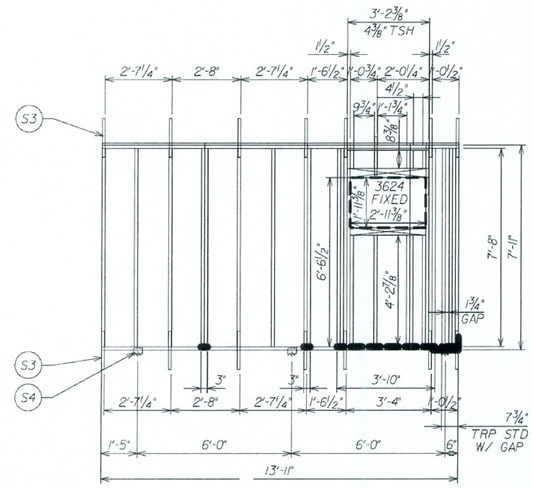
- (S2) - MSTAI2 (BENT)
- (S3) - MSTAI8
- (S4) - MP6F
- (S5) - MSTA30
- (S6) - MSTA24

SECOND FLOOR WALL PANEL LAYOUT

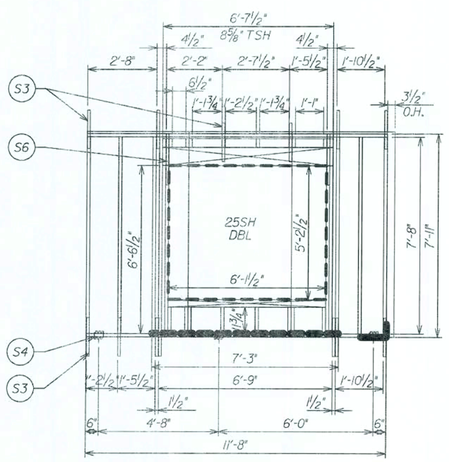
** ELEVATION "L" **



PANE E202



PANEL E203C3



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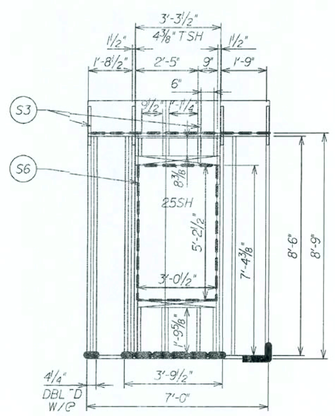

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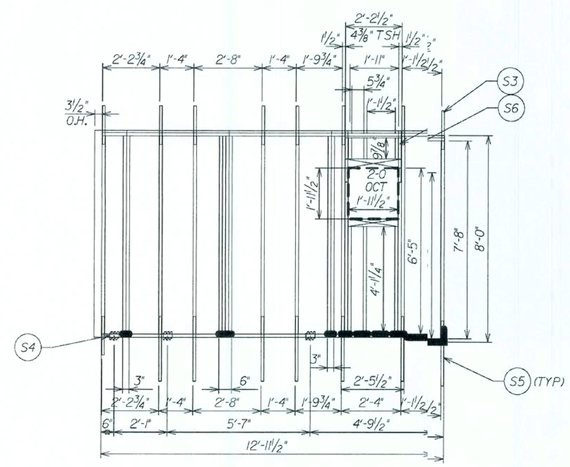

PANEL E211C3

REVISIONS :

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Maronda Homes

(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

AMERICANA | WALL PANEL LAYOUT

SUNBURY

ELEVATION "L"

DRAWN BY: E.JONES | GARAGE: LEFT

RELEASE DATE: 01/23/07

1:5:1:00

05

g:\mlcc\houses\f\sunbury\borderVefN.wp3

Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158

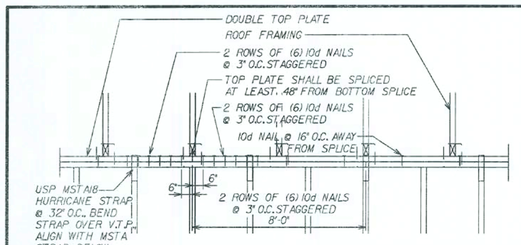
MAY 02 2008

SHEET:

WP3

PLOT DATE: 28 APR 2008

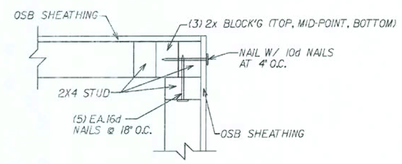
FLORIDA BUILDING CODE 2004 : RESIDENTIAL



DBL.TOP PLATE SPLICE CONN.

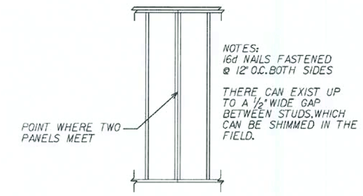
REVISED 02-15-07 : MST A18 STRAP

SCALE: N.T.S.



B TOP CORNER DETAIL

SCALE: N.T.S.



A WALL JOINT DETAIL

SCALE: N.T.S.

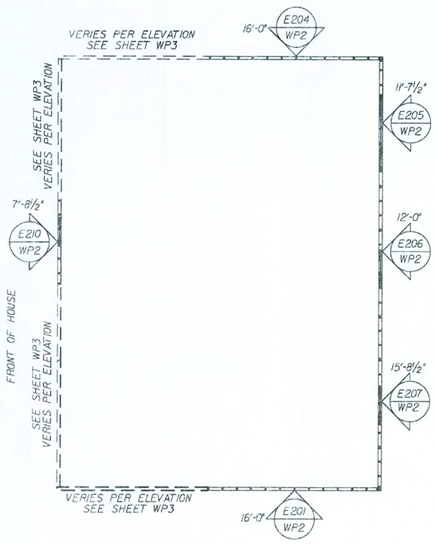
WWALL STRAP KEY

(UNDER SHEATHING)

- S1 - RSPT4

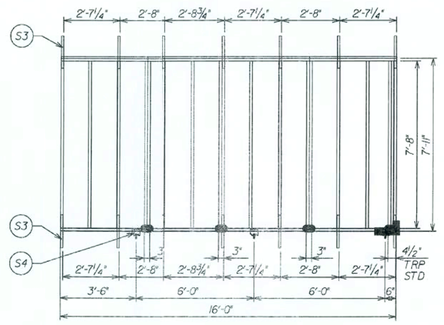
(ON TOP OF SHEATHING)

- S2 - MST A12 (BENT)
- S3 - MST A18
- S4 - MP6F
- S5 - MST A30
- S6 - MST A24

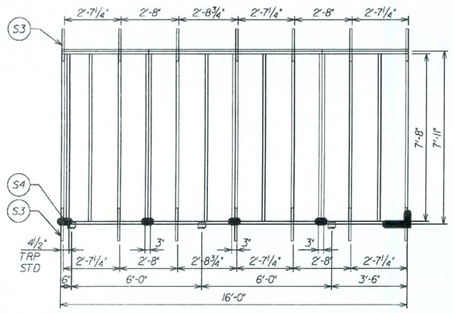


SECOND FLOOR WALL PANEL LAYOUT

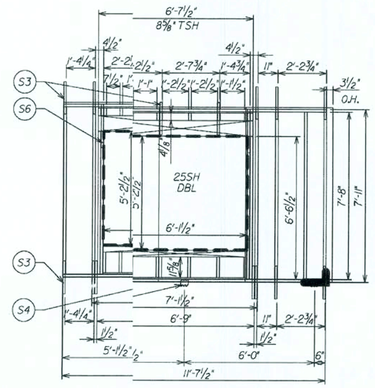
ALL ELEVATIONS



PANEL E201



PANEL E204



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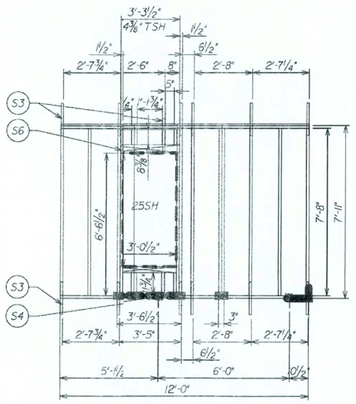

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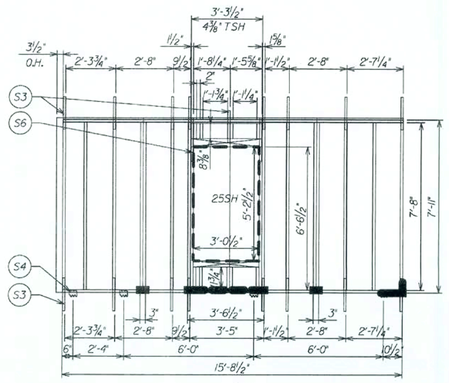

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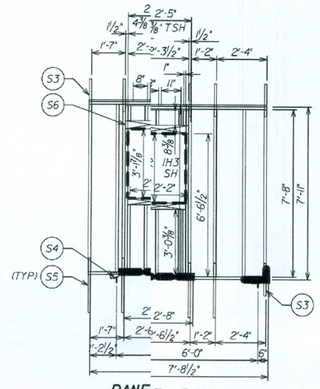


PANEL E210

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

REVISIONS :

Maronda Homes

(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

g:\mfcs\houses\f\sunbury\border\ief\sunbury-std.dwg

05

AMERICANA | WALL PANEL LAYOUT

SUNBURY

ALL ELEVATIONS

DRAWN BY: EJ | GARAGE: LEFT

RELEASE DATE: 6/28/2007

10:19:31

Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158

MAY 02 2008

SHEET:

WP2

PLOT DATE: 30 AUG 2007

GENERAL TRUSS NOTES:

PROVIDE TRUSS BRACING PER TRUSS ENGINEERING AND TPI HIB-91

ROOF TRUSS LOADING:
16 psf : TOP CHORD LL
7 psf : TOP CHORD DL
10 psf : BOTTOM CHORD LL
10 psf : BOTTOM CHORD DL

43 psf : TOTAL LOAD

USP HARDWARE - 160%

MARK	PRODUCT CODE #	MAN.	FASTENERS	UPLIFT
N	16d NAILS - (2) TOP CHORD NAILS / (2) BOTTOM CHORD NAILS			
1	HUS 26	USP	(14) 16d HEADER (6) 16d TRUSS	1925
2	HUS 28	USP	(22) 16d HEADER (8) 16d TRUSS	2570
3	JUS 26	USP	(4) 10d HEADER (4) 10d TRUSS	1115
4	MP6F	USP	HEADER/STUD (6) 8d TYPE 1 JOIST/PLATE (6) 8d	605
5	MPAI & MPAIF	USP	HEADER/STUD (6) 8d JOIST/PLATE (6) 8d	660
6	SKH 26 L/R	USP	HEADER (6) 16d JACK (6) 10d X 1½"	1085
7	SKHH26 L/R	USP	HEADER (18) 16d JACK (12) 10d X 1½"	2190
8	SUH 26	USP	HEADER (6) 10d JACK (4) 10d X 1½"	725
9	SUH 28	USP	HEADER (8) 10d JACK (6) 10d X 1½"	800
10	THD26	USP	HEADER (18) 16d TRUSS (12) 10d X 1½"	2170
11	THD28	USP	HEADER (28) 16d TRUSS (16) 10d X 1½"	2330
12	THD28-2	USP	HEADER (28) 16d TRUSS (16) 10d X 1½"	2485
13	THDH28-3	USP	HEADER (36) 16d TRUSS (16) 10d X 1½"	2665
14	THD48	USP	HEADER (28) 16d TRUSS (16) 10d X 1½"	2485
15	THJ 26	CLEVELAND	HIP(7)10d-HEADER(16)16d JACK (5) 10d x1½"	1010
16	(2) MTW 12	USP	(14) 10d (14) 10d x 1-1/2	2060
17	(2) MUGT15	USP	THREADED ROD (1) 5/8 GIRDER (22) 10d X 1½"	8330
18	(2) RT16-2	USP	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"	2320
19	(2) MST A24	USP	(18) 10d (18) 10d	3280
20	(2) RT16	USP	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"	2060
21	C44	USP	POST (6) 16d BEAM (6) 10d X 1½"	1000
22	FA3	USP	TOP (4) 10d X 1½" SIDE (2) 10d X 1½"	1155
23	HC520 CLIP	USP	PLATES (11) 8d STUD (6) 8d	445
24	HHCP2 CRNR CLIP	USP	TRUSS (10) 10d X 1½" PLATE (10) 10d X 1½"	800
25	HTA 20 ANCHOR	USP	(14) 10d X 1½"	1615
26	HTA 20(2) ANCHOR	USP	(13) 10d X 1½"	3230
27	HTW24	USP	(20) 10d	1325
28	HUGT2	USP	CONC. ANC.BOLT (2)3/4"-(2)1½"WASH 3¼" " EMBED. -ALL GRDR.-(8) 10d	9790
29	HUGT3	USP	CONC. ANC.BOLT (2)3/4"-(2)1½"WASH 3¼" EMBED. -ALL GRDR.-(8) 10d	9860
30	KST227 STRAP ANC.	USP	(34) 16d	4750
31	LPTA	USP	FACE OF GABLE W/ 2x4 (11) 10d x 1½"	1250
32	LSTA36	USP	(22) 10d X 1½"	1640
33	LTW12	USP	(12) 10d	670
34	LTS20 STRAP ANC	USP	ANCHOR-1/2" WEDGE BOLT 3¼" EMBED. (10) 10d X 1½"STRAP	1890
35	LBP12 BEARING PLT	USP	½" J-BOLT	2515
36	LFTA6	USP	PLATE (8) 8d STUD (8) 8d	1035
37	MSTA12	USP	(10) 10d	1015
38	MSTA18	USP	(14) 10d	1420
39	MSTA24	USP	(18) 10d	1640
40	MSTA30	USP	(22) 10d	2065
41	MTW12	USP	(14) 10d	1030
42	MTW18	USP	(14) 10d	1030
43	MTS27B STRP ANC	USP	(24) 16d (1)½" ANCHOR BOLT 3¼" EMBEDDED	4635
44	MUGT15	USP	(22) 10d (1)5/8" ANCHOR BOLT 3¼" EMBEDDED	4165
45	HP37 3½X 7	USP	HEADER (6) 16d TOP OF BOT. SEC.(6) 10d X 1½"	
46	PA 28	USP	(15) 16d	3360
47	RT16	USP	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"	1030
48	RT16A	USP	TRUSS (9) 10d x 1½" PLATE (8) 10d	1380
49	RT16-2	USP	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"	1160
50	RT5 CLIPS L/R	USP	TRUSS (4) 8d PLATE (4) 8d	540
51	RT3 CLIPS L/R	USP	(4) 8d TOP (4) 8d BOTTOM	530
52	TA 12	USP	(5) 10d x 1½"	790
53	TA 14	USP	(7) 10d x 1½"	1110
54	TA 18	USP	(8) 10d x 1½"	1205
55	(2)TA 18	USP	(8) 10d x 1½" 1-PLY (8) 10d x 1½" 2-PLY	2410 2410
56	TA 24	USP	(8) 10d x 1½"	1205
57	(2)TA 24	USP	(8) 10d x 1½" 1-PLY (8) 10d x 1½" 2-PLY	2410 2410
58	USC63	USP	TRUSS (8) 10d (4)¾" EXP. BOLTS #6170 2¾" EMBEDDED	1150
59	USC3F	USP	TRUSS (8) 10d (4)¾" EXP. BOLTS #6170 2¾" EMBEDDED	1150
60	USC73	USP	TRUSS (8) 16d (4)¾" EXP. BOLTS #6170 2¾" EMBEDDED	1150
61	UGTS63	USP	TRUSS (8) 16d (2)¾" ANC. BOLTS 2¾" EMBEDDED	6170
62	(2) HTW24	USP	(20) 10d (20) 10d	2650

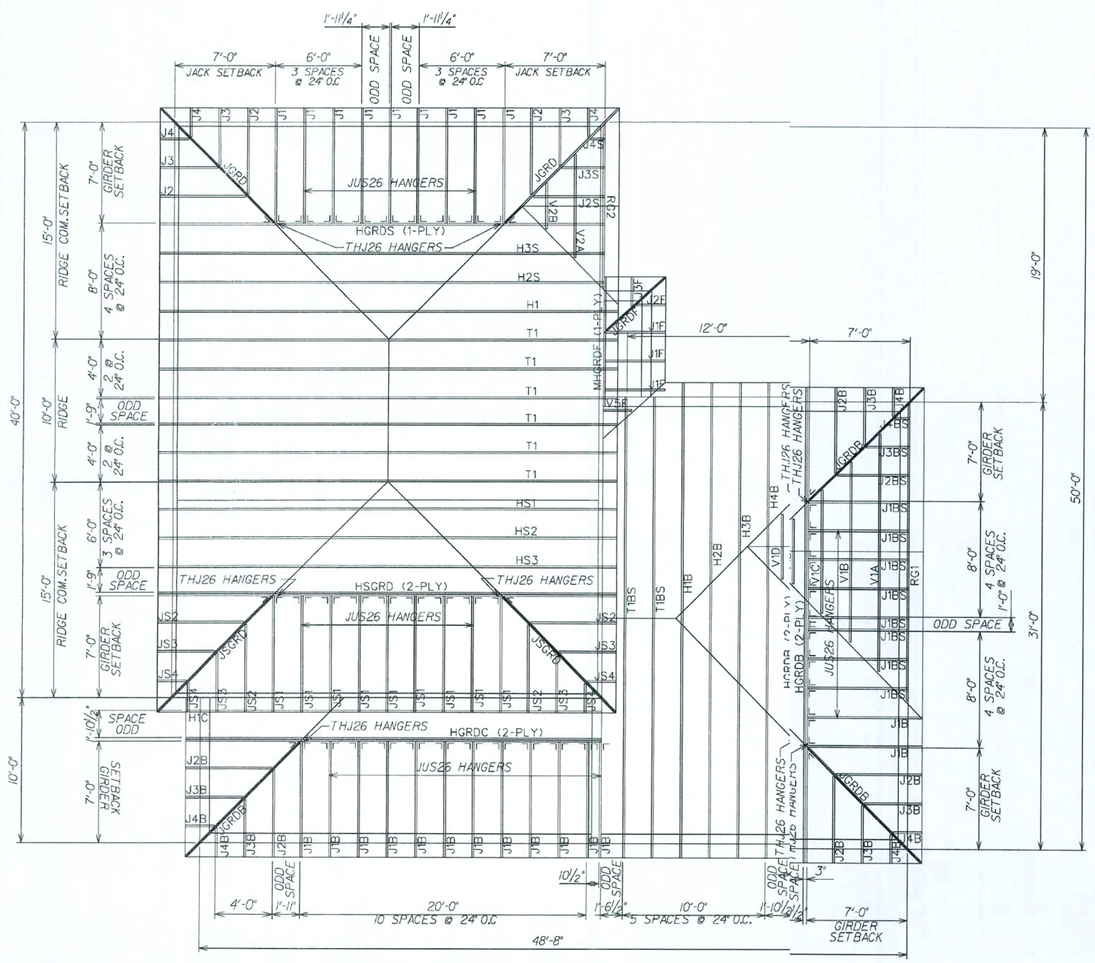
TRUSS HARDWARE SCHEDULE

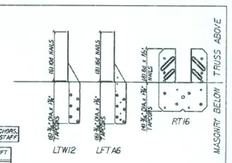
TRUSS ID	TRUSS TYPE	QUAN.	UPLIFT LEFT	UPLIFT MID	UPLIFT HT	STRAP LEFT	STRAP MID	STRAP RIGHT
H1	HIP	1	300		10	47		47
H1B	HIP	1	328		18	54		54
H1C	HIP	1	711		18	54		54
H2S	HIP	1	212		15	47		47
H2B	HIP	1	314		14	54		54
H3S	HIP	1	194		7	47		47
H3B	HIP	1	297		7	54		54
H4B	HIP	1	288		8	54		54
HGRDS	1-PLY HIP GIRDER	1	1220		15	20		20
HGRDB	2-PLY HIP GIRDER	1	1899		17	18		18
HGRDC	2-PLY HIP GIRDER	1	1704		11	18		18
HS1	HIP SCISSOR	1	296		6	47		47
HS2	HIP SCISSOR	1	281		1	47		47
HS3	HIP SCISSOR	1	263		3	47		47
HSGRD	2-PLY HIP GIRDER	1	1259		19	18		18
J1	END JACK	9	111		0	50		3
J1B	END JACK	14	238		0	54		3
J1BS	END JACK	8	41		3	54		3
J1F	END JACK	3	164	36	3	54	54	N
J2	CORNER JACK	3	104		3	50		N
J2B	CORNER JACK	5	195	83	4	54	54	N
J2BS	CORNER JACK	1	28		3	54		N
J2F	CORNER JACK	1	113		0	50		N
J2S	CORNER JACK	1	22		3	50		N
J3	CORNER JACK	3	101		1	50		N
J3B	CORNER JACK	5	159	33	4	54	54	N
J3BS	CORNER JACK	1	14		3	54		N
J3F	CORNER JACK	1	114			50		N
J3S	CORNER JACK	1	11		2	50		N
J4	CORNER JACK	3	111			50		N
J4B	CORNER JACK	5	114			54		N
J4BS	CORNER JACK	1	5			54		N
J4S	CORNER JACK	1	3		3	50		N
JGRD	KING JACK	2	169		7	24		15
JGRDB	KING JACK	3	219		5	24		15
JGRDF	KING JACK	1	207	34	1	24		15
JS1	END JACK	9	105		3	50		3
JS2	CORNER JACK	4	98		1	50		N
JS3	CORNER JACK	4	94		1	50		N
JS4	CORNER JACK	4	98			50		N
JSGRD	KING JACK	2	180		3	24		15
MHGRDF	HIP HIP GIRDER	1	327		1	33		50
RG1	GABLE	1	178		1	50		50
RG2	GABLE	1	167		1	50		50
T1	COMMON	6	309		3	47		47
T1BS	COMMON	2	332		3	54		54
V1AH1D	VALLEY TRUSS	3						
V2AV2B	VALLEY TRUSS	3						
V5F	VALLEY TRUSS	3						

GENERAL TRUSS NOTES:

1. INFORMATION BASED ON 125 mph WINDLOAD, ALL PRESSURES WERE CALCULATED USING COMPONENTS AND CLADDING
2. ROOF TRUSS LOADING:
   16 psf TOP CHORD LL
   7 psf TOP CHORD DL
   10 psf BOTTOM CHORD LL
   10 psf BOTTOM CHORD DL
   43 psf TOTAL LOAD
3. PROVIDE TRUSS BRACING PER TRUSS ENGINEERING & BCSI-B1

REVISED 1-18-08





ANCHOR FASTENING SCHEDULE
MISSED ROOF TIE DOWN REPAIR
SCALE : NTS

REVISIONS :
10-04-05 FBC 2004 : RESIDENTIAL

Maronda Homes
4071 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIRE-MENTS OF THE STANDARD TYPE FLORIDA BUILDING CODE: 2004 : RESIDENTIAL AND2006 SUPPLEMENT FOR 125 MPH - 3 SEC. GUST. HVL EXPOSURE B, ENCLOSED BUILDING. ALL CONNECTORS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS.

AMERICANA | INFO SHEET

SUNBURY

ELEVATION "L"

DRAWN BY: K WARD | GARAGE: LEFT | 125 MPH

RELEASE DATE: 11/08/07

p:\f:\houses.05\sunbury\125r\mitek.tri\sun-l125l.tri

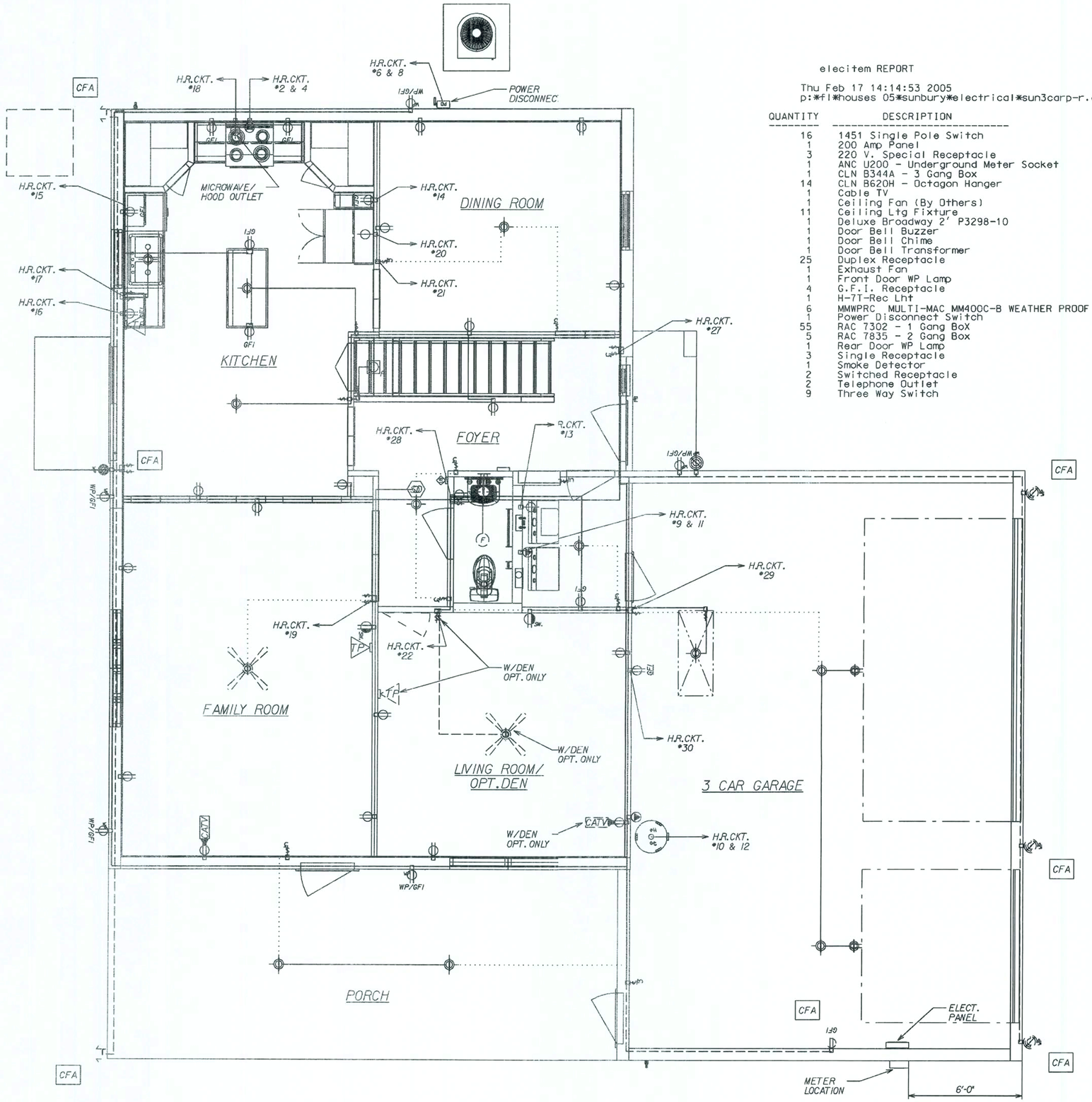
23 JAN 2008 15:09:25

Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158
MAY 02 2008

SHEET:
TRI

FLORIDA BUILDING CODE 2004 : RESIDENTIAL



elecitem REPORT

Thu Feb 17 14:14:53 2005
p:*fl*houses 05*sunbury*electrical*sun3carp-r.ele

QUANTITY	DESCRIPTION
16	1451 Single Pole Switch
1	200 Amp Panel
3	220 V. Special Receptacle
1	ANC U200 - Underground Meter Socket
1	CLN B344A - 3 Gang Box
14	CLN B620H - Octagon Hanger
1	Cable TV
1	Ceiling Fan (By Others)
11	Ceiling Ltg Fixture
1	Deluxe Broadway 2' P3298-10
1	Door Bell Buzzer
1	Door Bell Chime
1	Door Bell Transformer
25	Duplex Receptacle
1	Exhaust Fan
1	Front Door WP Lamp
4	G.F.I. Receptacle
1	H-7T-Rec Lht
6	MMWPRC MULTI-MAC MM400C-B WEATHER PROOF RECEPTICAL COVER
1	Power Disconnect Switch
55	RAC 7302 - 1 Gang BoX
5	RAC 7835 - 2 Gang Box
1	Rear Door WP Lamp
3	Single Receptacle
1	Smoke Detector
2	Switched Receptacle
2	Telephone Outlet
9	Three Way Switch

GENERAL ELECTRICAL NOTES:

CIRCUITRY IS DIAGRAMATIC ONLY, FIELD CONDITIONS MAY CHANGE ACTUAL INSTALLATION.

PROVIDE AFCIs (arc-fault circuit interrupters) IN ALL DWELLING UNIT BEDROOMS PER NEC. SECTION 210J2

SMOKE DETECTORS ARE INSTALLED PER MFG. INSTRUCTIONS AND NFPA 72. ALL DEVICES SHALL BE INTERCONNECTED WITH BATTERY BACK-UP.

FOR INSTALLATION OF GROUND ROD, SEE TYP. CONC.ENCASED ELECTRODE DETAIL SHEET* FTG

REVISED 10-05-06

LIST OF OPTIONS:

CFA	OPTIONAL COACH LIGHTS, (2) FLOOD LIGHTS AT REAR AND GARAGE OUTLET REVISED 11-18-05
GSD	OPTIONAL DOOR LIGHT REVISED 11-18-05

ELECTRICAL SYMBOL LEGEND:

REGULAR TEXT	REVERSE TEXT	DESCRIPTION
PD	PD	Power Disconnect Switch
		Door Bell Chime
		Door Bell Buzzer
		Ceiling Fan (By Others)
SD	SD	Smoke Detector
		Light Fixture Bath
		Exterior WP Lamp
		Single Pole Switch
		Three Way Switch
		Single Receptacle
		Duplex Receptacle
GFI	GFI	GFI Receptacle
SW.	SW.	Switched Receptacle
		220 V. Special Receptacle
		Ceiling Ltg Fixture
R	R	Recessed Ltg. Fixture
F	F	Exhaust Fan
CATV	CATV	Cable TV
TP	TP	Telephone Outlet
		Flood Lights
E		Exhaust Fan / Light Combo

REVISED 03-19-07

elecinth REPORT

Thu Feb 17 14:14:53 2005
p:*fl*houses 05*sunbury*electrical*sun3carp-r.ele

QUANTITY	DESCRIPTION
221'	10 Gauge/3 Cond. Copper
537'	12 Gauge/2 Cond. Copper
1427'	14 Gauge/2 Cond. Copper
234'	14 Gauge/3 Cond. Copper
155'	6 Gauge/3 Cond. Copper

REVISIONS :
12-19-06 ELIM. SMOKE DETECT. HOME RUN.
02-19-07 ADD SMOKE DETECTOR TO MASTER BEDROOM

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND 2005, 2006 SUPPLEMENT

AMERICANA | 1st. FLR. ELECTRICAL

SUNBURY-NEWBERRY

3 CAR GARAGE w/ PORCH

DRAWN BY: GARAGE: LEFT

RELEASE DATE: / /

SHEET: E1

PLOT DATE: 12 MAR 2008 08:36:22

p:\fl\houses_05\sunbury\electrical\sun3carp-r.all

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

ELECTRICAL LOAD CALCULATIONS

11/28/06

MODEL: SUNBURY / NEWBERRY

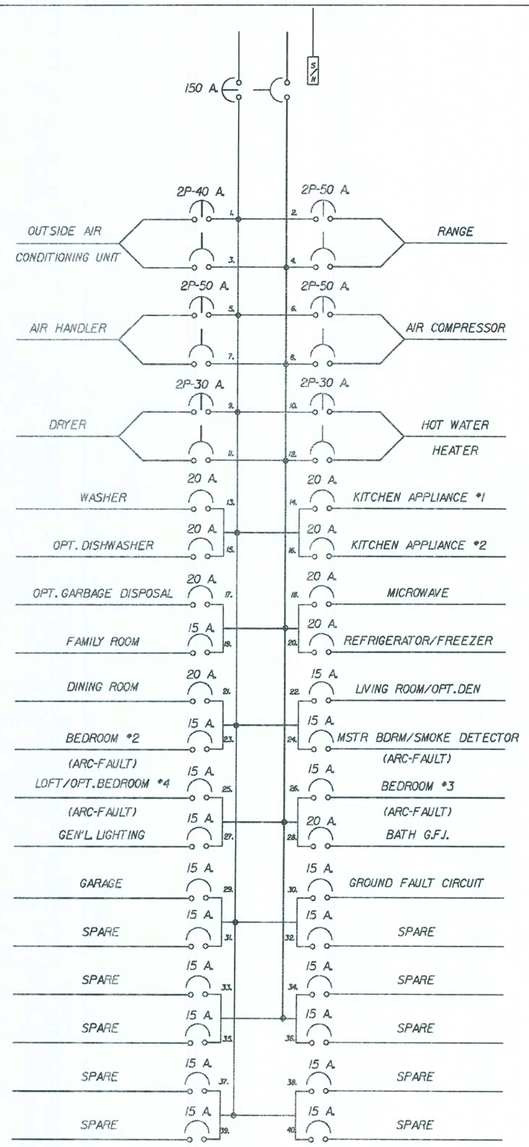
		VOLT/AMPS
LARGEST LOAD:HEAT PUMPW/SUPPLEMENTAL HEAT		**10270**
SQUARE FEET LIVING AREA	2223 @ 3 VOLT/AMPS	6669
SMALL APPLIANCE CIRCUITS		3000
LAUNDRY CIRCUIT		1500
OVEN		11700
WATER HEATER		4500
DISHWASHER		1500
DRYER		5000
DISPOSAL		500
TOTAL LOAD		**34369**

FIRST 10KVA @100%	10000
REMAINDER @40%	9747.6
LARGEST LOAD	10270

TOTAL LOAD **30018** V.A./240 VOLTS= **125** AMPS

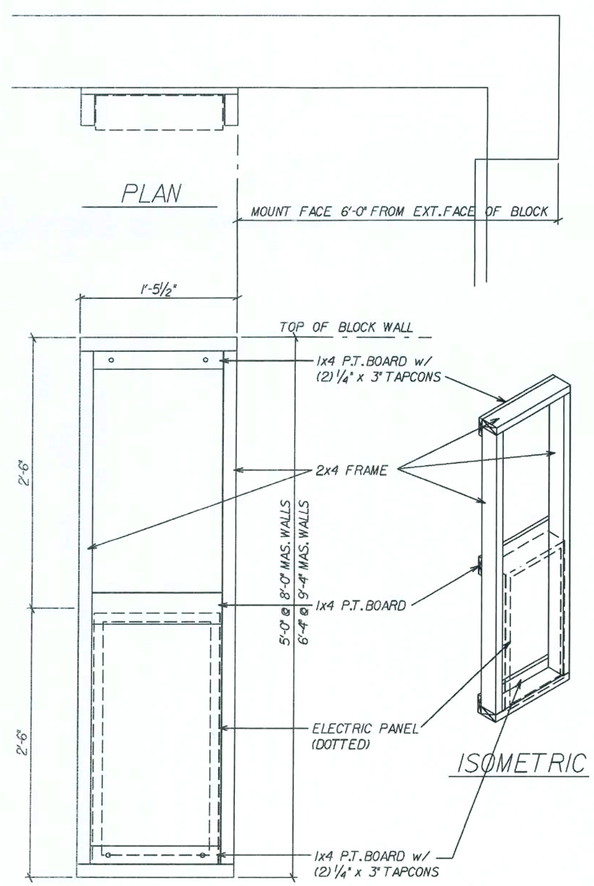
SERVICE SIZE: 150 AMPS

NOTE: HEAT PUMPS ARE CALCULATED AT 100% WITH SUPPLIMENTAL HEAT AT 100%



MAIN BREAKER LOAD CENTER

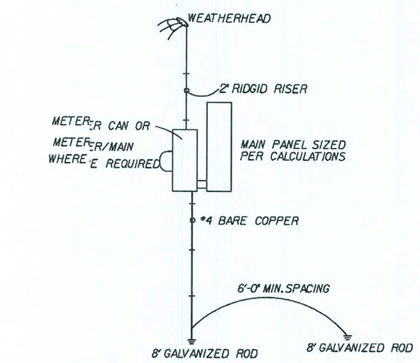
NOTE:
IF LOCAL CODE REQUESTS A LOCK-DOG DEVICE ON BREAKERS FOR APPLIANCES, FIELD WILL SUPPLY TO COMPLY



ELECTRIC PANEL FRAME

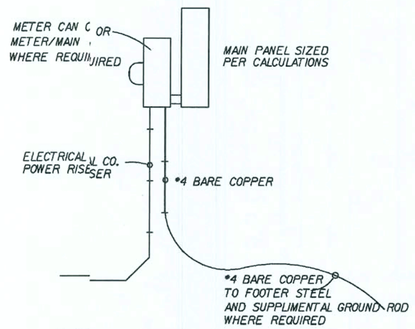
REVISED 09-07-07
ADDED HGT.@ 9'-4" MAS. WALL

SCALE: 1" = 1'-0"

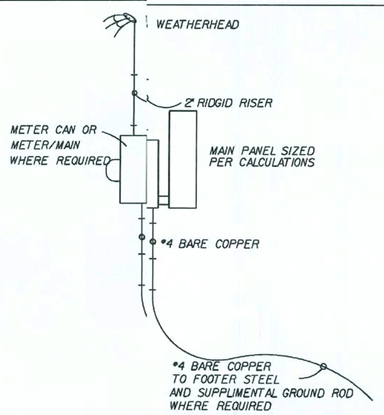


OVERHEAD SERV.

REVISED 06-06-06 SPACING REQUIREMENT

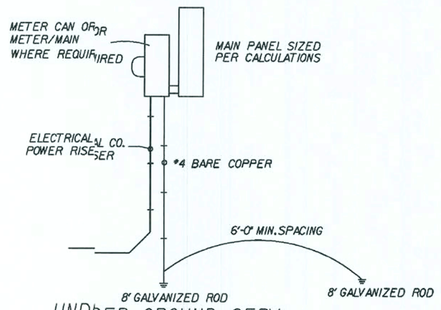


UNDER GROUND SERV.



OVERHEAD SERV.

REVISED 06-06-06 SPACING REQUIREMENT



UNDER GROUND SERV.

* GROUNDING ELECTRODE SYSTEM TO BE INSTALLED PER ARTICLE 250 NAT. ELECT. CODE *

REVISIONS :

- 05-23-06 REV. BREAKER LOAD CENTER
- 05-24-06 ADD NOTE FOR LOCK-DOG
- 11-28-06 REV. ELECT. LOAD CALC.
- 12-19-06 ELIM. SMOKE DETECT. HOME RUN.
- 02-19-07 ADD SMOKE DETECTOR TO MASTER BEDROOM
- 3-02-07-REV. DINING RM. CKT. FROM 15A. TO 20A.
- 03-10-08 REV. DW & GD BKR. TO 20 AMP.- KW

Maronda Homes

4005 MARONDA WAY SANFORD, FLORIDA (407) 321-0064

FLORIDA STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND 2006 SUPPLEMENT

AMERICANA ELECTRICAL DETAILS

SUNBURY-NEWBERRY

GARAGE:

DRAWN BY:

RELEASE DATE: 09-11-03

PLOT DATE: 12 MAR 2008

08:36:23

p:\f\houses_05\sunbury\electrical\sunela

SHEET: ELA

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

elecitem REPORT

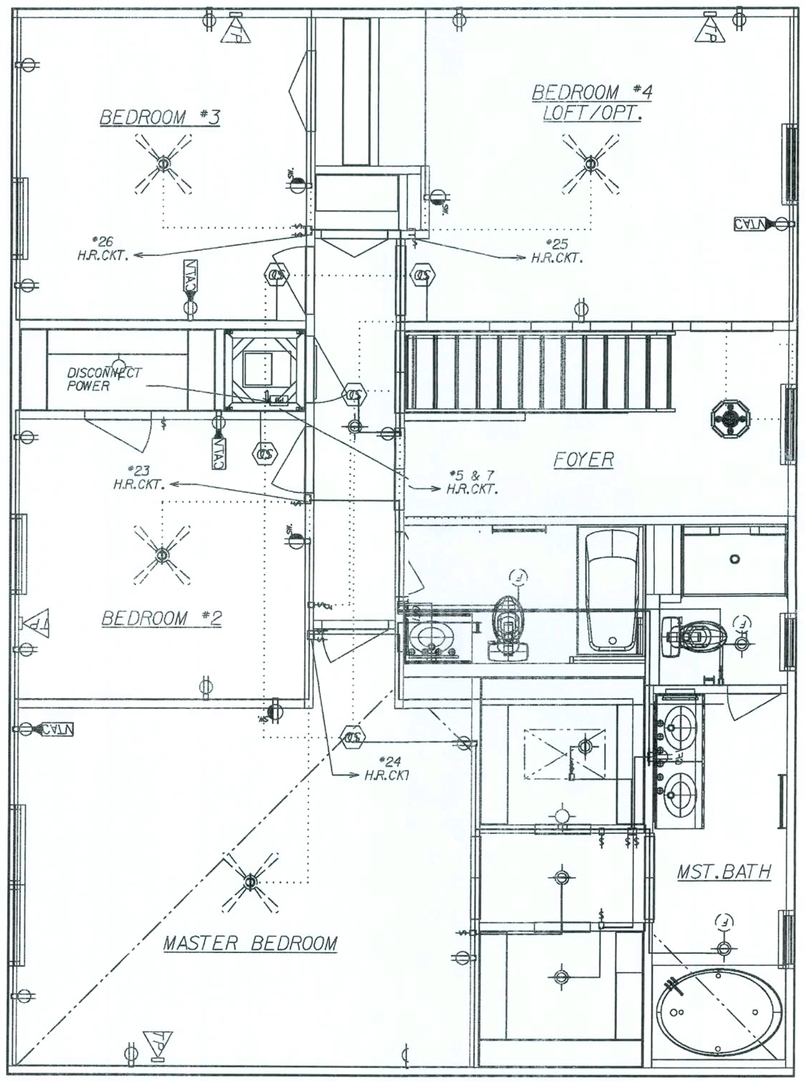
Mon Jan 10 10:48:00 2005
p:*fl*houses 05*sunbury*electrical*el.el2

QUANTITY	DESCRIPTION
17	1451 Single Pole Switch
1	CLN B344A - 3 Gang BoX
9	CLN B620H - Octagon Hanger
4	Cable TV
4	Ceiling Fan (By Others)
5	Ceiling Ltg Fixture
1	Deluxe Broadway 2' P3298-10
1	Deluxe Broadway 3' P3299-11
21	Duplex Receptacle
3	Exhaust Fan
1	Fluor Ltg 2'L (2B)
1	Foyer Chandelier
1	H-7T-Rec Lht
1	Power Disconnect Switch
30	RAC 7302 - 1 Gang BoX
6	RAC 7835 - 2 Gang Box
5	Smoke Detector
4	Switched Receptacle
4	Telephone Outlet
3	Three Way Switch

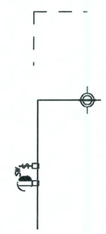
elecinth REPORT

Mon Jan 10 10:48:00 2005
p:*fl*houses 05*sunbury*electrical*ele.el2

QUANTITY	DESCRIPTION
71'	10 Gauge/3 Cond. Copper
40'	12 Gauge/2 Cond. Copper
1075'	14 Gauge/2 Cond. Copper
306'	14 Gauge/3 Cond. Copper



ADD ELECTRICAL SUPPLIES ONLY
WITH BEDROOM #3 CLOSET.



GENERAL ELECTRICAL NOTES:

CIRCUITRY IS DIAGRAMATIC ONLY, FIELD CONDITIONS MAY CHANGE ACTUAL INSTALLATION.

PROVIDE AFCIs (arc-fault circuit interrupters) IN ALL DWELLING UNIT BEDROOMS PER NEC, SECTION 210J2

SMOKE DETECTORS ARE INSTALLED PER MFG. INSTRUCTIONS AND NFPA 72. ALL DEVICES SHALL BE INTERCONNECTED WITH BATTERY BACK-UP.

FOR INSTALLATION OF GROUND ROD, SEE TYP. CONC. ENCASED ELECTRODE DETAIL SHEET* FTG

REVISED 10-05-06

LIST OF OPTIONS:

CFA	OPTIONAL COACH LIGHTS, (2) FLOOD LIGHTS AT REAR AND GARAGE OUTLET REVISED 11-18-05
GSD	OPTIONAL DOOR LIGHT REVISED 11-18-05

ELECTRICAL SYMBOL LEGEND:

REGULAR TEXT	REVERSE TEXT	DESCRIPTION
PD	PD	Power Disconnect Switch
		Door Bell Chime
DB	DB	Door Bell Buzzer
		Ceiling Fan (By Others)
SD	SD	Smoke Detector
		Light Fixture Bath
		Exterior WP Lamp
		Single Pole Switch
		Three Way Switch
		Single Receptacle
		Duplex Receptacle
GFI	GFI	GFI Receptacle
SW.	SW.	Switched Receptacle
		220 V. Special Receptacle
		Ceiling Ltg Fixture
R	R	Recessed Ltg. Fixture
F	F	Exhaust Fan
CATV	TV	Cable TV
TP	TP	Telephone Outlet
		Flood Lights
F		Exhaust Fan / Light Combo

REVISED 03-19-07

REVISIONS :
02-03-06 REVISED MASTER BATH LIGHT
01-29-07 REV. MSTR. BR. SMOKE DET. LOC. ELECT.

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA: THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND 2005, 2006 SUPPLEMENT

AMERICANA | 2nd. FLR. ELECTRICAL

SUNBURY-NEWBERRY

3 BEDROOM

DRAWN BY: GARAGE: LEFT

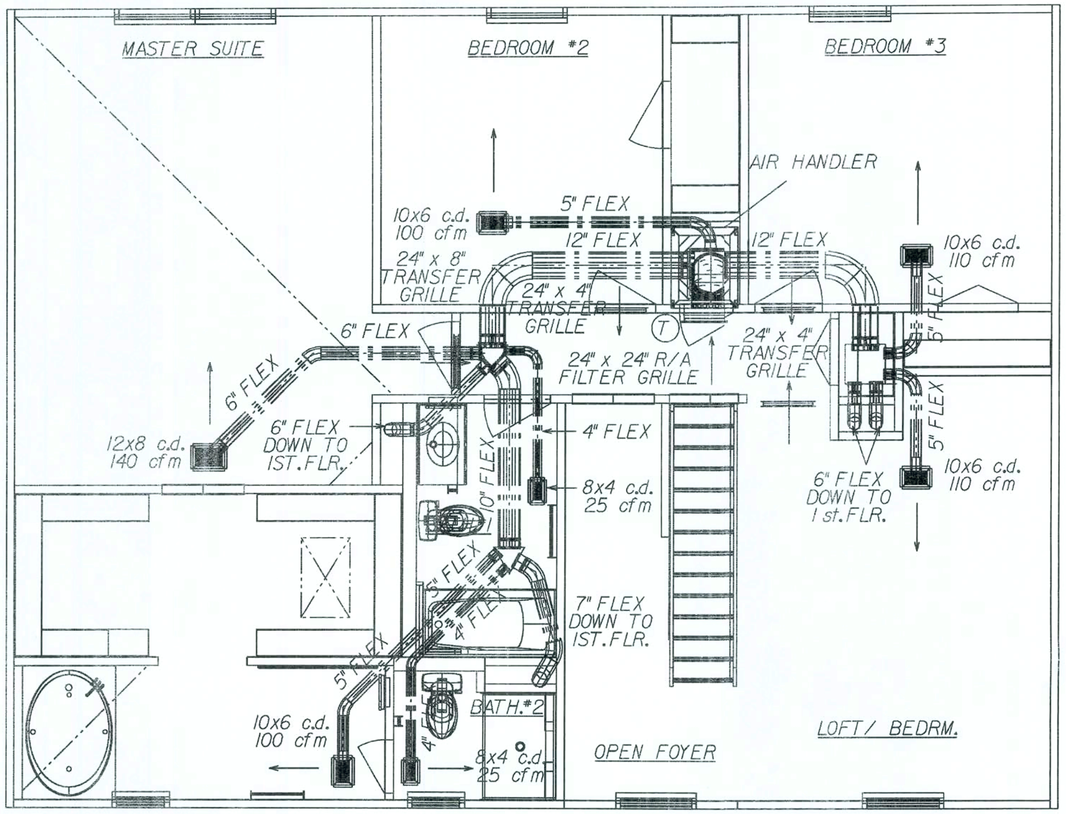
RELEASE DATE: / /

SHEET: EL2

PLOT DATE: 12 MAR 2008 08:36:24

p:\fl\houses_05\sunbury\electrical\sun-r.el2

FLORIDA BUILDING CODE 2004 : RESIDENTIAL



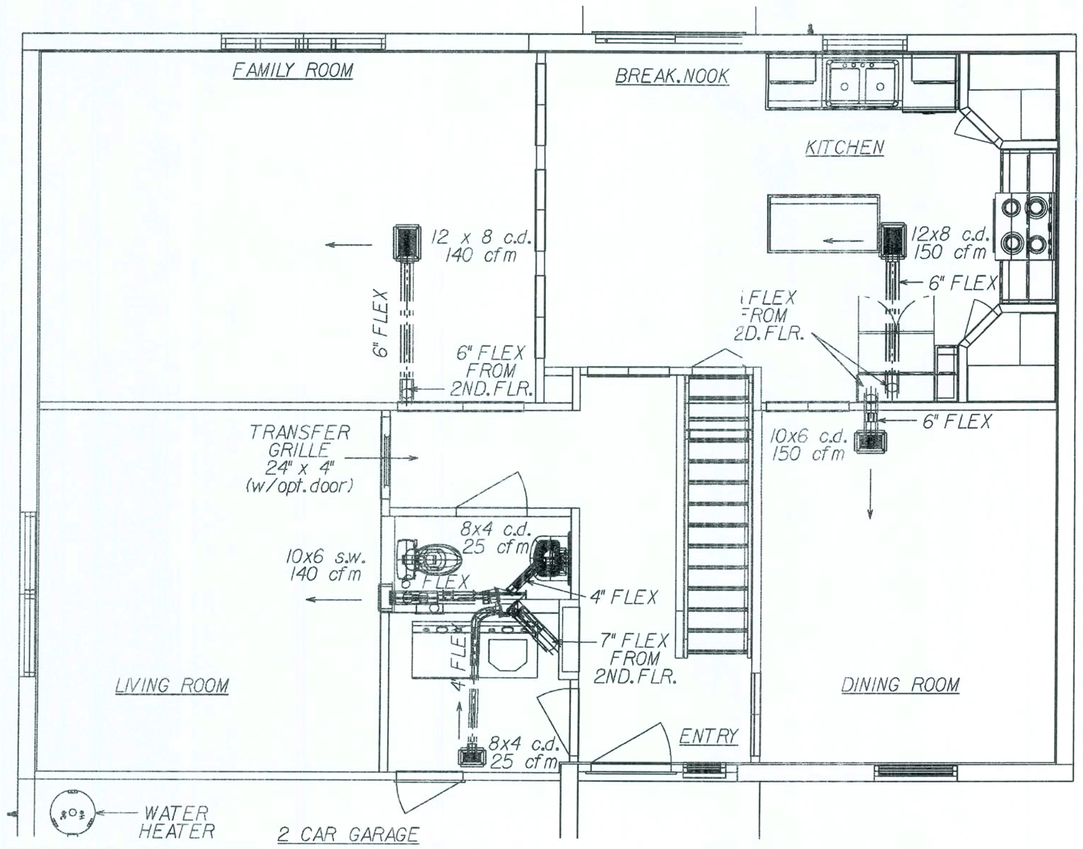
MECHANICAL EQUIPMENT :

3.5 TON
TEMPSTAR FEM2X4200 13 SEER
TEMPSTAR N2H342AKA 13 SEER
7.5 KW
BRAEBURN 5200 2 STAGE HEAT PUMP PROGRAMMABLE
BROAN 671-70 CFM
SIZES OF REDUCTION BOXES (DB6-16x14x16x12x15))
SIZE OF TRIANGLES (15x15x15x15)
EXT.STATIC .60 - 1240 CFM

ALL TAPES,CONNECTORS AND MASTIC
USED WILL BE UL-181

SECOND FLOOR PLAN

SCALE 1/4" = 1' - 0"



FIRST FLOOR PLAN

SCALE 1/4" = 1' - 0"

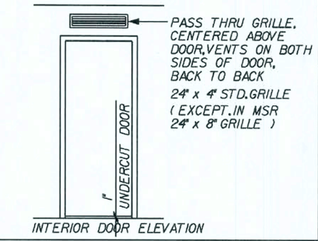
GENERAL MECHANICAL NOTES:

ALL TAPES, CONNECTORS AND MASTIC USED WILL BE UL-181 APPROVED.

SEE ELECTRIC PLANS FOR EXHAUST FAN LOCATIONS IN BATH AREAS.

SEE FLOOR PLAN FOR CLOTHES DRYER VENT LOCATION.

M1602.4 BALANCED RETURN AIR:
TRANSFER GRILLES @ HABITABLE ROOMS SEE DETAIL BELOW:



INTERIOR DOOR ELEVATION

REVISIONS :
AJ REV.TRANSFER GRILLE @ M.B.R.(8/5/05)
11-01-05 REMOVED ENG'S NOTE
04-26-06 REV.HTG.SYSTEMS
1/2/07 UPDATED TO 13 SEER TJM

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND 2005, 2006 SUPPLEMENT

AMERICANA | REGISTER LAYOUT

SUNBURY-NEWBERRY

3 BEDROOM / LOFT

DRAWN BY: GARAGE: LEFT
RELEASE DATE: 9/26/01 T.J.TOOMEY

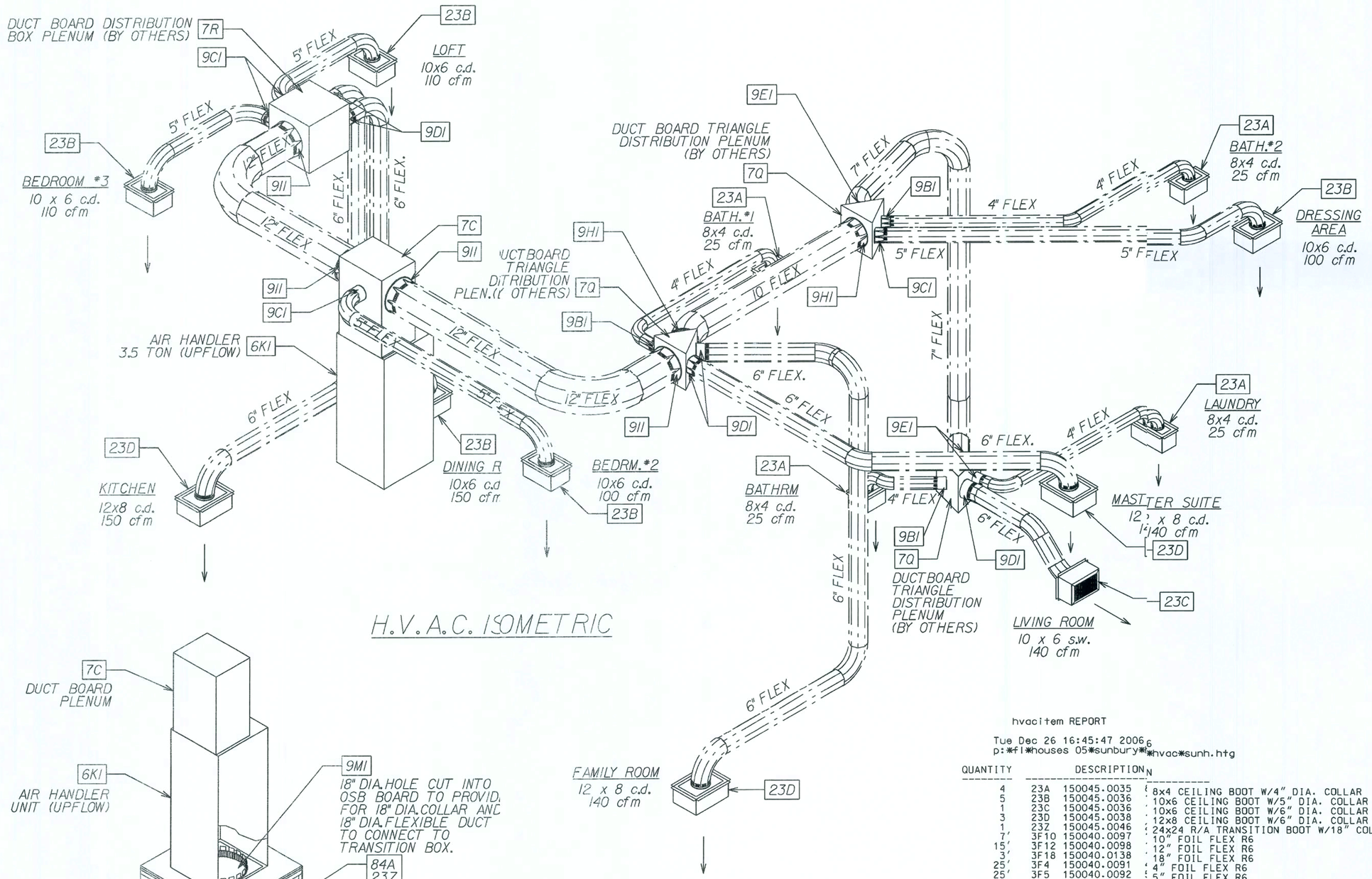
p:\fl\houses_05\sunbury\hvac\sun-r13.hva
11:39:12

SHEET:
HVA

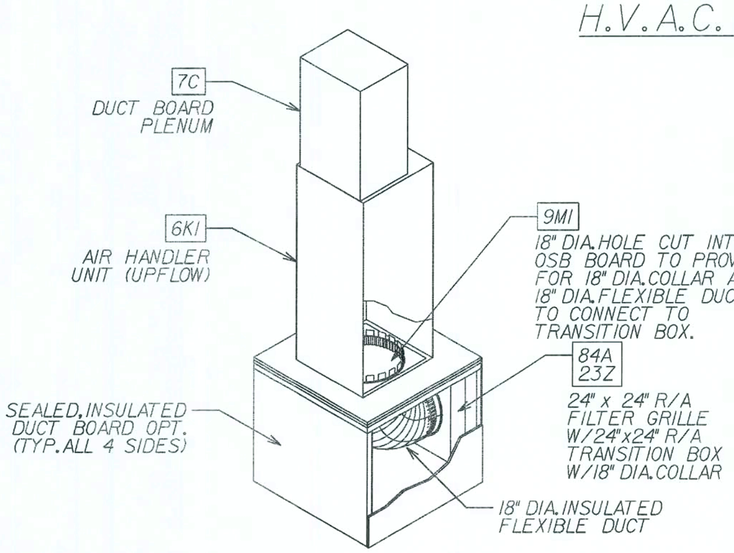
PLOT DATE: 22 FEB 2008

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

* USE WITH 13 SEER EQUIPMENT *



H.V.A.C. ISOMETRIC



RETURN-AIR ISOMETRIC

MECHANICAL EQUIPMENT :

3.5 TON
TEMPSTAR FEM2X4200 13 SEER
TEMPSTAR N2H342AKA 13 SEER
7.5 KW
BRAEBURN 5200 2 STAGE HEAT PUMP PROGRAMABLE
BROAN 671-70 CFM
SIZES OF REDUCTION BOXES (DB6-16x14x16x12x15)
SIZE OF TRIANGLES (15x15x15x15)
EXT.STATIC .60 - 1240 CFM

ALL TAPES,CONNECTORS AND MASTIC USED WILL BE UL-181

hvacitem REPORT

Tue Dec 26 16:45:47 2006
p:*fl*houses 05*sunbury*6*hvac*sunh.htg

QUANTITY			DESCRIPTION
4	23A	150045.0035	8x4 CEILING BOOT W/4" DIA. COLLAR
5	23B	150045.0036	10x6 CEILING BOOT W/5" DIA. COLLAR
1	23C	150045.0036	10x6 CEILING BOOT W/6" DIA. COLLAR
3	23D	150045.0038	12x8 CEILING BOOT W/6" DIA. COLLAR
1	23Z	150045.0046	24x24 R/A TRANSITION BOOT W/18" COLLAR
7'	3F10	150040.0097	10" FOIL FLEX R6
15'	3F12	150040.0098	12" FOIL FLEX R6
3'	3F18	150040.0138	18" FOIL FLEX R6
25'	3F4	150040.0091	4" FOIL FLEX R6
25'	3F5	150040.0092	5" FOIL FLEX R6
65'	3F6	150040.0093	6" FOIL FLEX R6
16'	3F7	150040.0094	7" FOIL FLEX R6
1	6K1	150005.0044	FEM2X4200A 13 SEER 3.5 TON AIR HANDLER UNIT
1	6Q1	150010.0104	N2H342AKA 13 SEER 3.5 TON CONDENSER
1	7C	150005.0110	19x13x30"H BOX PLENUM
3	7Q	150040.0118	DUCT PLENUM TRIANGLE
1	7R	150040.0111	18" SQUARE DUCT PLENUM
4	81A	150055.0041	24x4 TRANSFER GRILLE
4	81B	150045.0052	24x4 TRANSFER GRILLE FRAME
1	81C	150055.0078	24x8 TRANSFER GRILLE
1	81D	150045.0078	24x8 TRANSFER GRILLE FRAME
1	84A	150055.0032	24x24 RETURN AIR FILTER GRILLE
4	9B1	150040.0075	4" K-COLLAR/ROTH (4KC/413)
4	9C1	150040.0076	5" K-COLLAR/ROTH (5KC/413)
5	9D1	150040.0077	6" K-COLLAR/ROTH (6KC/413)
2	9E1	150040.0078	7" K-COLLAR/ROTH (7KC/413)
2	9H1	150040.0081	10" K-COLLAR/ROTH (10KC/413)
4	9I1	150040.0082	12" K-COLLAR/ROTH (12KC/413)
1	9M1	150040.0137	18" K-COLLAR/ROTH (18KC/413)

REVISIONS :
11/28/05 REVISED HEATING SYSTEM T.J.T.
12/29/06 UPDATED TO 13 SEER TJM

Maronda Homes
4005 MARONDA WAY SANFORD, FLORIDA (407) 321-0064

FLORIDA: THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND 2005, 2006 SUPPLEMENT

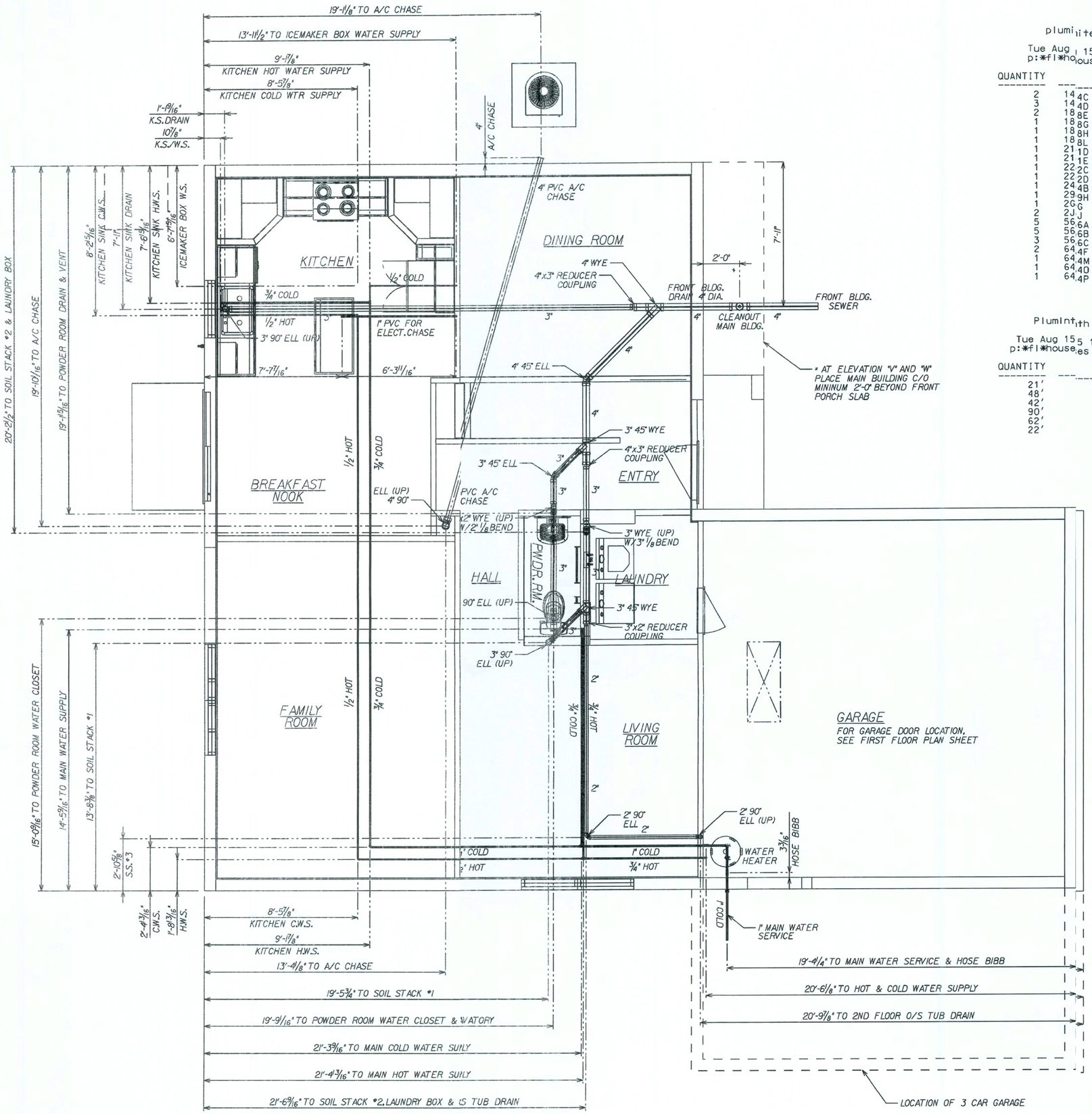
p:\fl\houses_05\sunbury\hvac\sunh-r13.iso

AMERICANA
SUNBURY-NEWBERRY
3 BEDROOM/LOFT
GARAGE: LEFT
T.J.T.
DRAWN BY:
RELEASE DATE: 9/9/99
HVAC ISO

SHEET:
ISO-H

PLOT DATE: 22 FEB 2008 11:39:13

FLORIDA BUILDING CODE 2004 : RESIDENTIAL



plumiitem REPORT

Tue Aug 15 15:17:27 2006
p:*fl*houses 05*sunbury*plumbing*sunbury.fp1

QUANTITY			DESCRIPTION
2	14	4C	130005.0041 2" PVC 90 ELBOW
3	14	4D	130005.0066 3" PVC 90 ELBOW
2	18	8E	130005.0076 3" PVC 45 WYE
1	18	8G	130005.0063 3"x3"x2" PVC 45 WYE
1	18	8H	130005.0097 4" PVC 45 WYE
1	18	8L	130005.0081 4"x4"x3" PVC 45 WYE
1	21	1D	130005.0064 3" PVC 45 ELBOW
1	21	1E	130005.0083 4" PVC 45 ELBOW
1	22	2C	130005.0040 2" PVC 45 ST. ELBOW
1	22	2D	130005.0065 3" PVC 45 ST. ELBOW
1	24	4B	130005.0150 4" 2-WAY CLEANOUT TEE
1	29	9H	130005.0289 4x4 FEM ADPTR W/ C/O PLG.
1	2G	G	130005.0061 3x2 PVC REDUCER COUPLING
2	2J	J	130005.0082 4X3 REDUCER COUPLING
5	56	6A	150060.0199 1/2" CPVC 90 ELBOW
5	56	6B	130010.0007 3/4" CPVC 90 ELBOW
3	56	6C	130010.0057 1" CPVC 90 ELBOW
2	64	4F	130010.0037 3/4"X1/2"X3/4" CPVC TEE
1	64	4M	130010.0099 1x3/4x3/4 CPVC TEE
1	64	4D	130010.0061 1x1x1/2" CPVC TEE
1	64	4P	130010.0060 1x1x3/4" CPVC TEE

PlumIntith REPORT

Tue Aug 15 15:17:27 2006
p:*fl*houses 05*sunbury*plumbing*sunbury.fp1

QUANTITY	DESCRIPTION
21'	130005.0047 2" PVC PIPE
48'	130005.0072 3" PVC PIPE
42'	130005.0091 4" PIPE
90'	130010.0012 3/4" CPVC PIPE
62'	130010.0025 .5" CPVC PIPE
22'	130010.0056 1" CPVC PIPE

REVISIONS :

06-07-06 ADDED 3CAR GARAGE LOCATION
06/26/06 REVISED AS PER DRAWINGS TJM
08/15/06 REV.CLEANOUT & BOM LIST TJM
09-25-06 ADDED GARAGE DOOR NOTE

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

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AMERICANA | UNDRGRND.PLMB.

SUNBURY-NEWBERRY

ALL ELEVATIONS

DRAWN BY: | GARAGE: LEFT

RELEASE DATE: 08/15/06 | TOM MARTINEZ

PER FLORIDA PLUMBING CODE: ALL WATER INTO HOUSE WILL RUN ON 1" CPVC TO FIRST FIXTURE GROUP.

REVISED 10-03-06

PER FLORIDA PLUMBING CODE: ALL DWV THROUGH FOOTERS WILL BE SLEEVED

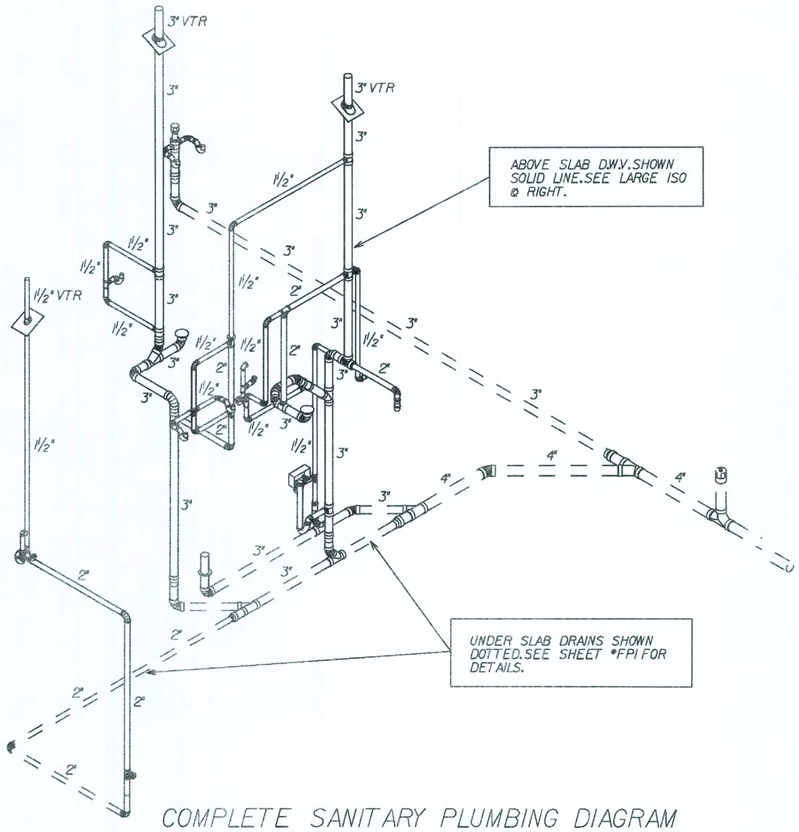
REVISED 08-15-05

SHEET: FP1

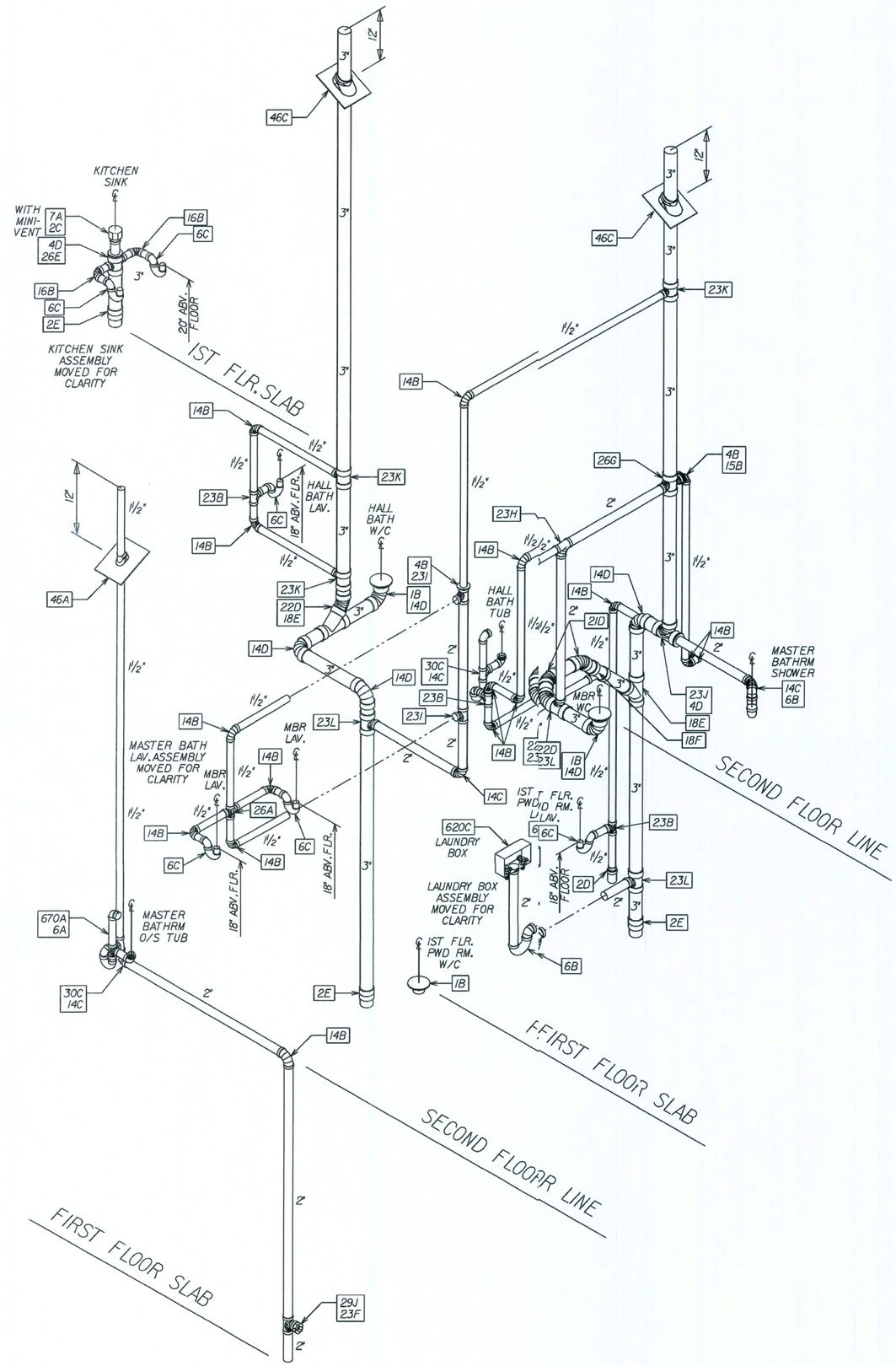
PLOT DATE: 22 FEB 2008 11:39:57

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

d:\f\houses_05\sunbury\plumbing\sunburyar.fpl



COMPLETE SANITARY PLUMBING DIAGRAM



plumitem REPORT

Thu Aug 17 14:39:44 2006
p:*fl*houses 05*sunbury*plumbing*sunburyp.plm

QUANTITY		DESCRIPTION	
16	14B	130005.0013	1.5" PVC 90 ELBOW
3	14C	130005.0041	2" PVC 90 ELBOW
5	14D	130005.0066	3" PVC 90 ELBOW
1	15B	130005.0015	1.5" PVC 90 ST. ELBOW
2	18E	130005.0076	3" PVC 45 WYE
1	18F	130005.0057	3"x3"x1.5" PVC 45 WYE
3	1B	130005.0099	4"x3" CLOSET FLANGE
2	21D	130005.0064	3" PVC 45 ELBOW
1	22C	130005.0040	2" PVC 45 ST. ELBOW
2	22D	130005.0065	3" PVC 45 ST. ELBOW
3	23B	130005.0024	1.5" PVC TEE
1	23F	130005.0048	2" PVC TEE
1	23H	130005.0265	2"x1.5"x2" PVC TEE
2	23I	130005.0034	2"x2"x1.5" PVC TEE
1	23J	130005.0074	3" PVC TEE
3	23K	130005.0056	3"x3"x1.5" PVC TEE
3	23L	130005.0062	3"x3"x2" PVC TEE
1	26A	130005.0727	1.5" DOUBLE TEE
1	26E	130005.0132	3"x3"x1.5"x1.5" DOUBLE TEE
1	26G	130005.0134	3"x3"x2"x2" DOUBLE TEE
1	29J	130005.0291	2" CO ADAPTER W/CO PLUG
1	2C	130005.0043	2" PVC COUPLING
1	2D	130005.0033	2x1.5 PVC REDUCER COUPLING
3	2E	130005.0068	3" PVC COUPLING
1	30C	130005.0279	2x1.5x1.5" ST. TEE
1	46A	130050.0238	1-1/2" NEOPRENE ROOF FLASHING
2	46C	130050.0028	3" NEOPRENE ROOF FLASHING
2	4B	130005.0032	2x1.5 FTG FL BUSHING
2	4D	130005.0059	3x2 FTG FL BUSHING
1	620C	130035.0027	Laundry Box Center
2	670A	130005.0105	1 1/2" WATCO TUB OVERFLOW ASSEMLY
2	6A	130005.0022	1.5"x1.5" P-TRAP PartA
2	6A	130005.0022	1.5"x1.5" P-TRAP PartB
2	6B	130005.0046	2" P-TRAP
6	6C	130005.0107	1.5"x1.25" P-TRAP W/UNION JT
1	7A	130005.0160	1.25-2" STUDOR MINI-VENT

PlumInth REPORT

Thu Aug 17 14:39:44 2006
p:*fl*houses 05*sunbury*plumbing*sunburyp.plm

QUANTITY	DESCRIPTION	
64'	130005.0023	1.5" PIPE
33'	130005.0047	2" PVC PIPE
52'	130005.0072	3" PVC PIPE

REVISIONS :
08/18/06 REVD.KITCHEN SINK ASSEM.-TJM

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

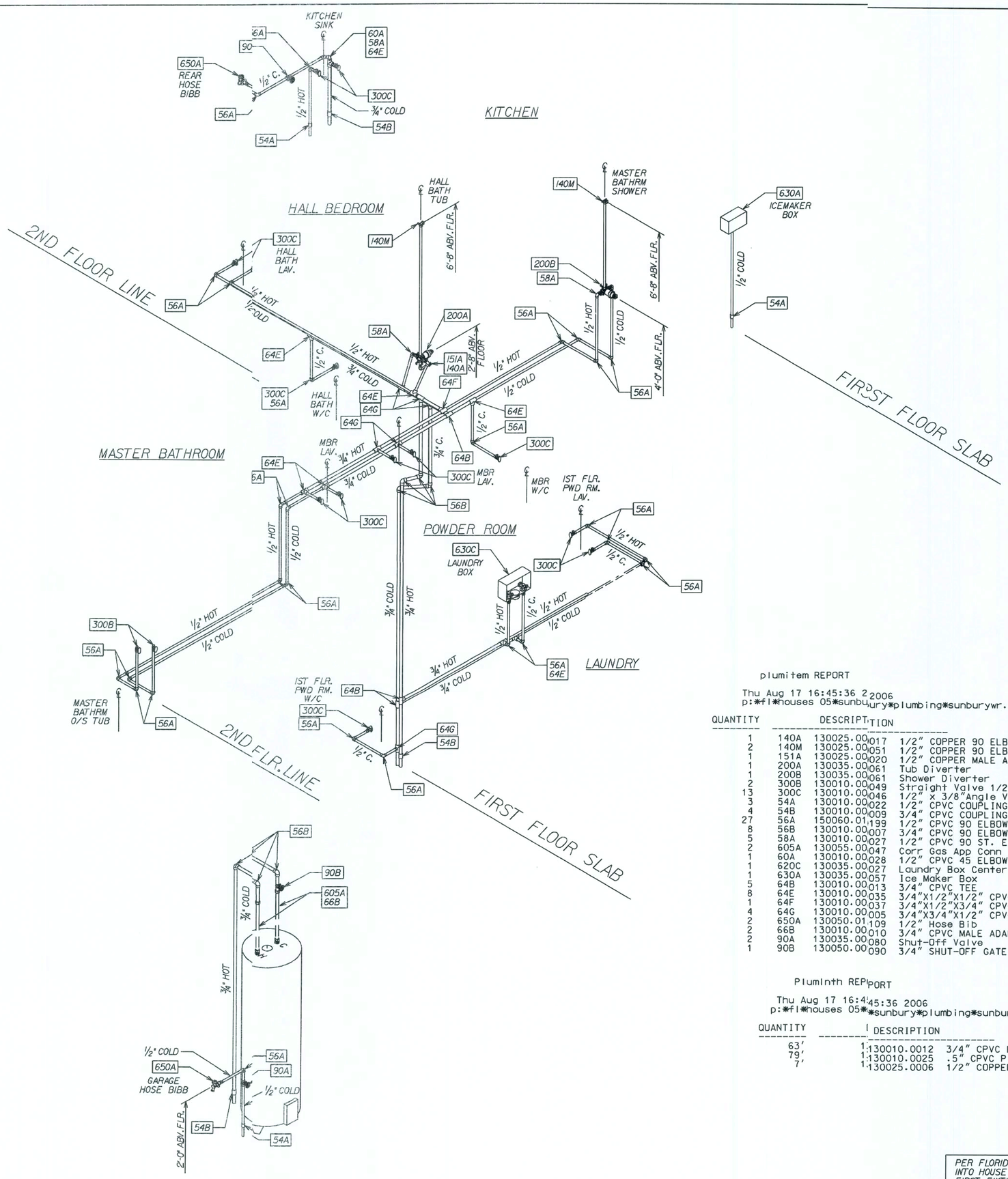
FLORIDA: THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND2005, 2006 SUPPLEMENT

p:\fl\houses_05\sunbury\plumbing\sunburypr.iso

AMERICANA | DWV PLUMBING ISO
SUNBURY-NEWBERRY
ALL ELEVATIONS
GARAGE: LEFT
DRAWN BY: TOM MARTINEZ
RELEASE DATE: 08/18/06
11:39:58
PLOT DATE: 22 FEB 2008

SHEET:
ISO-P

FLORIDA BUILDING CODE 2004 :RESIDENTIAL



plumitem REPORT

Thu Aug 17 16:45:36 2006
p:*fl*houses 05*sunbury*plumbing*sunburywr.wtr

QUANTITY		DESCRIPTION	
1	140A	130025.00017	1/2" COPPER 90 ELBOW
2	140M	130025.00051	1/2" COPPER 90 ELBOW Drop
1	151A	130025.00020	1/2" COPPER MALE ADAPTER
1	200A	130035.00061	Tub Diverter
1	200B	130035.00061	Shower Diverter
2	300B	130010.00049	Straight Valve 1/2" x 3/8"
13	300C	130010.00046	1/2" x 3/8"Angle Valve
3	54A	130010.00022	1/2" CPVC COUPLING
4	54B	130010.00009	3/4" CPVC COUPLING
27	56A	150060.01199	1/2" CPVC 90 ELBOW
8	56B	130010.00007	3/4" CPVC 90 ELBOW
5	58A	130010.00027	1/2" CPVC 90 ST. ELBOW
2	605A	130055.00047	Corr Gas App Conn
1	60A	130010.00028	1/2" CPVC 45 ELBOW
1	620C	130035.00027	Laundry Box Center
1	630A	130035.00057	Ice Maker Box
5	64B	130010.00013	3/4" CPVC TEE
8	64E	130010.00035	3/4"X1/2"X1/2" CPVC TEE
1	64F	130010.00037	3/4"X1/2"X3/4" CPVC TEE
4	64G	130010.00005	3/4"X3/4"X1/2" CPVC TEE
2	650A	130050.01109	1/2" Hose Bib
2	66B	130010.00010	3/4" CPVC MALE ADAPTER BRASS THREADS
2	90A	130035.00080	Shut-Off Valve
1	90B	130050.00090	3/4" SHUT-OFF GATE VALVE

PlumInth REPORT

Thu Aug 17 16:45:36 2006
p:*fl*houses 05**sunbury*plumbing*sunburywr.wtr

QUANTITY		DESCRIPTION	
63'	1	130010.0012	3/4" CPVC PIPE
79'	1	130010.0025	.5" CPVC PIPE
7'	1	130025.0006	1/2" COPPER Pipe

PER FLORIDA PLUMBING CODE; ALL WATER INTO HOUSE WILL RUN ON 1" CPVC TO FIRST FIXTURE GROUP.
REVISED 10-03-06

REVISIONS :

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA:
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AMERICANA | CPVC WATER ISO

SUNBURY-NEWBERRY

3 BEDROOM/LOFT

GARAGE: LEFT

DRAWN BY: T.J.TOOMEY

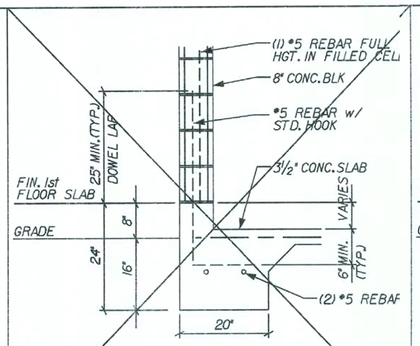
RELEASE DATE: 08/18/06

PLOT DATE: 22 FEB 2008 11:39:59

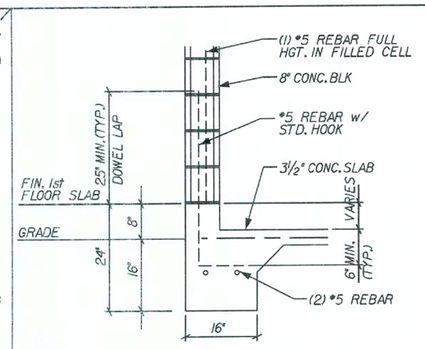
p:\houses_05\sunbury\plumbing\sunburywr.iso

SHEET: ISO-W

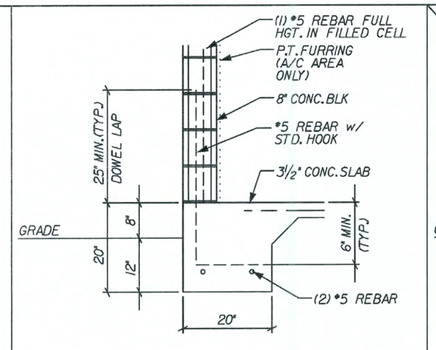
FLORIDA BUILDING CODE 2004 :RESIDENTIAL



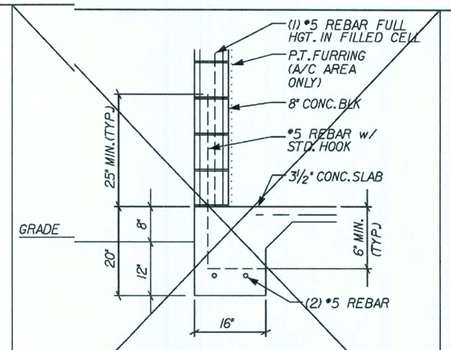
G2 GARAGE 2-STOR
REVISED 11-07-06
DELETED STONE LEDGE
NOT USED
SCALE: 1/2" = 1'-0"



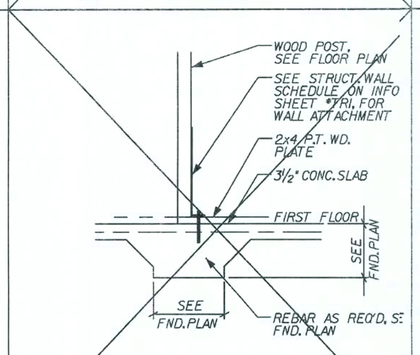
G GARAGE 1-STORY
REVISED 11-07-06
DELETED STONE LEDGE
SCALE: 1/2" = 1'-0"



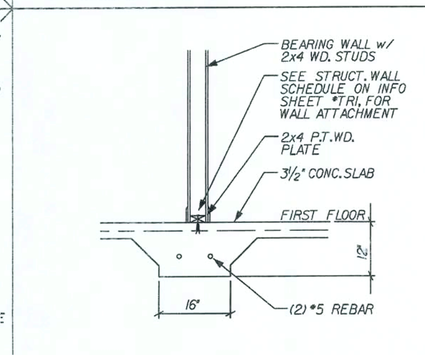
A2 TYPICAL 2-STORY
REVISED 11-07-06
DELETED STONE LEDGE
SCALE: 1/2" = 1'-0"



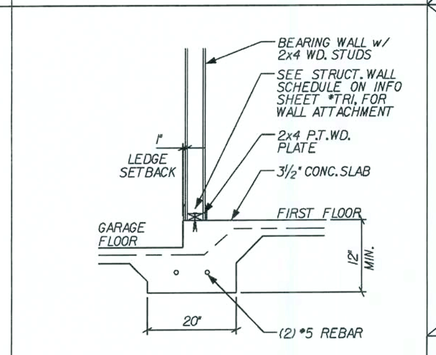
A TYPICAL 1-STORY
REVISED 11-07-06
DELETED STONE LEDGE
NOT USED
SCALE: 1/2" = 1'-0"



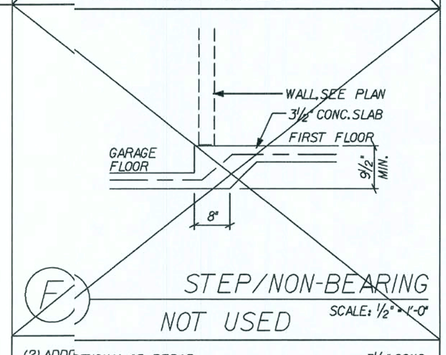
J INTERIOR BEARING POS
NOT USED
SCALE: 1/2" = 1'-0"



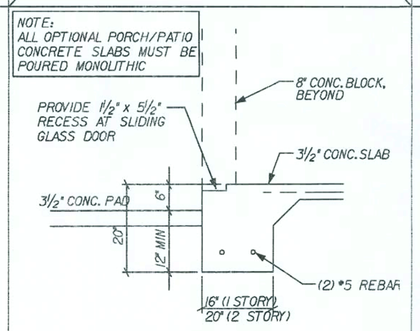
I INTERIOR BEARING
SCALE: 1/2" = 1'-0"



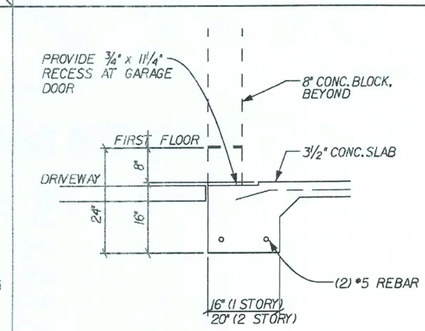
H STEP/BEARING
REVISED 01-31-05
SCALE: 1/2" = 1'-0"



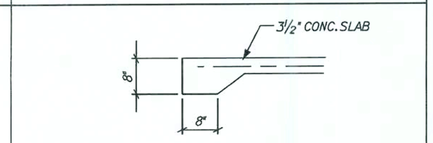
F STEP/NON-BEARING
NOT USED
SCALE: 1/2" = 1'-0"



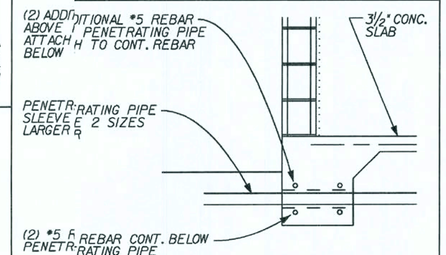
S RECESS @ SLIDE
REVISED 05-06-05
SCALE: 1/2" = 1'-



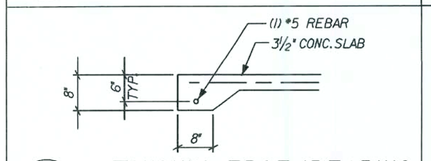
R THICK'N EDGE/GARAGE
REVISED 04-23-06
SCALE: 1/2" = 1'-0"



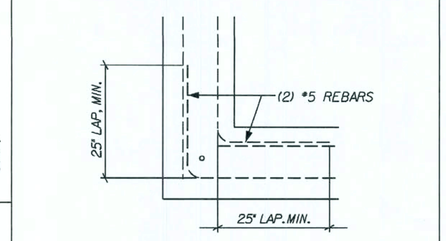
N THICK'N EDGE
SCALE: 1/2" = 1'-0"



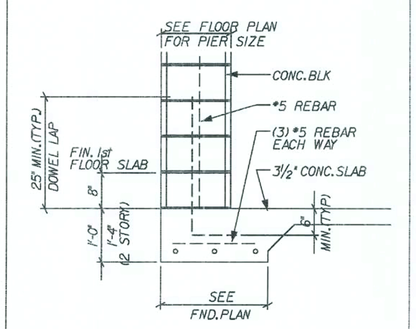
TYP. PIPE PENETRATION
REVISED 06-01-06
ADDED 1 DETAIL
SCALE: 1/2" = 1'-0"



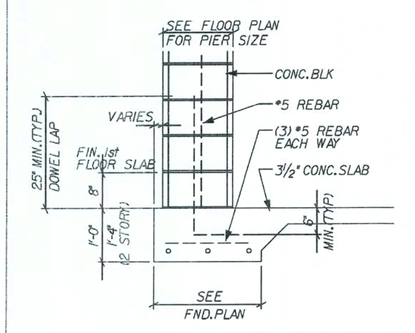
P THICK'N EDGE/BEARING
SCALE: 1/2" = 1'-0"



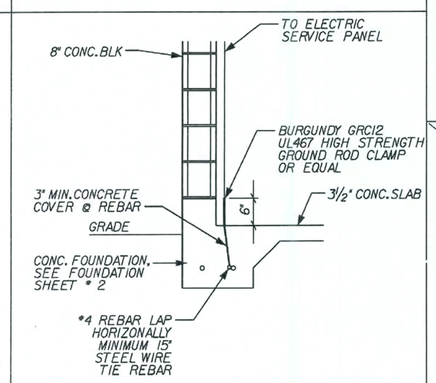
TYYP. FTNG @ CORNER
SCALE: 1/2" = 1'-0"



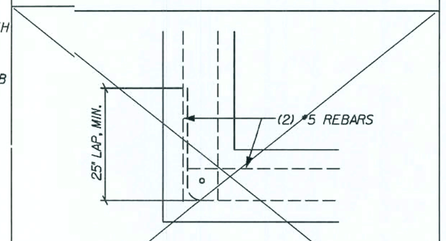
U PIER DETAIL #
REVISED 02-20-07
16" DEEP @ 2 STORY
SCALE: 1/2" = 1'-



T SUNBURY - 'V' PIER DETAIL #1
REVISED 02-20-07
16" DEEP @ 2 STORY
SCALE: 1/2" = 1'-0"



TYP. CONC. ENCASED ELECTRODE
SCALE: 1/2" = 1'-0"



TYP. FTNG @ OUTSIDE CORNER
SCALE: 1/2" = 1'-0"

REVISIONS :

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 ; RESIDENTIAL AND 2005, 2006 SUPPLEMENT

FOOTINGS | STANDARD DETAILS

SUNBURY-NEWBERRY

GARAGE:
DRAWN BY:
RELEASE DATE: 10-08-04

Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158

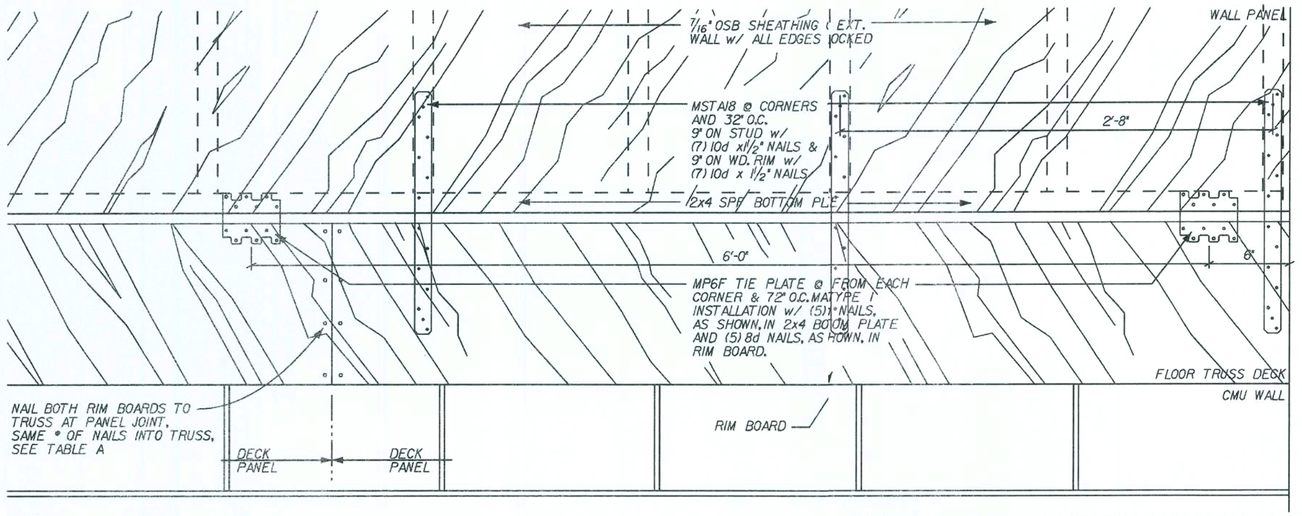
MAY 02 2008

SHEET:
FTG

PLOT DATE: 22 FEB 2008 11:50:58

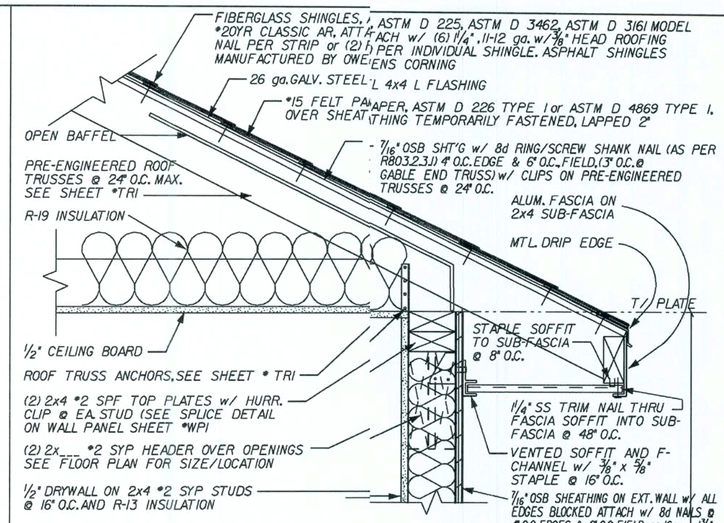
p:\f\houses_05\sunbury\dtls\sun-std.ftg

FLORIDA BUILDING CODE 2004 : RESIDENTIAL



J — TYPICAL WALL CONNECTION-TRUSS FLOOR

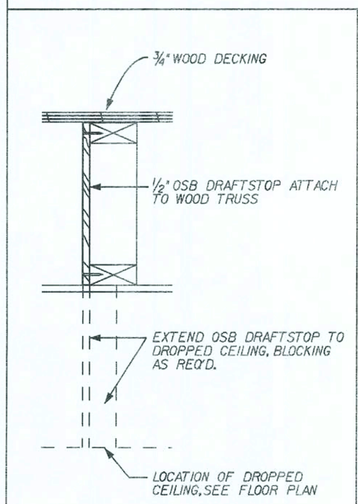
SCALE: 1 1/2" = 1'-0"



C — WALL SECTION-FRAMED ROOF

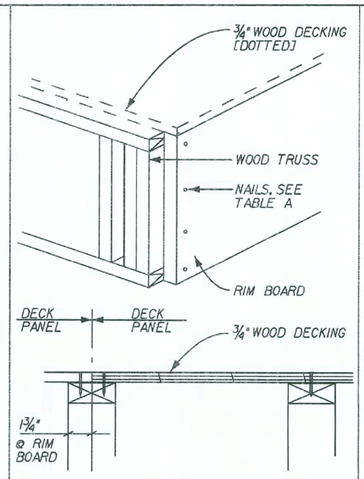
REVISED 02-20-08 R-13 INSULATION

SCALE: 1 1/2" = 1'-0"



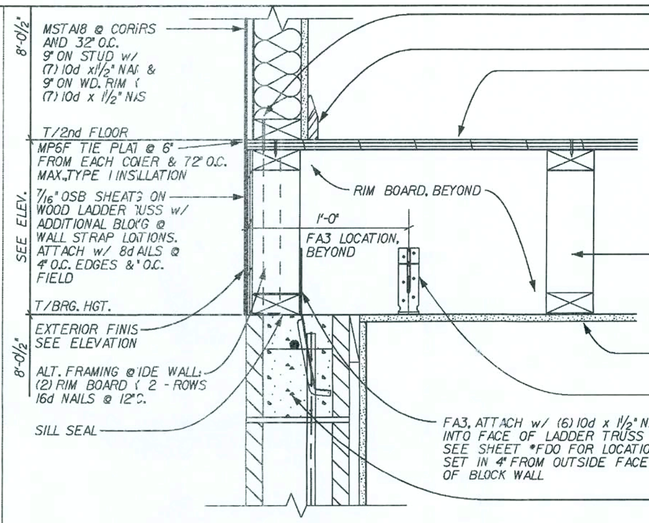
H — DRAFT STOPPING-TRUSS FLOOR

SCALE: 1 1/2" = 1'-0"



G — DECK CONNECTION @ PANEL JOINT TRUSS FLOOR

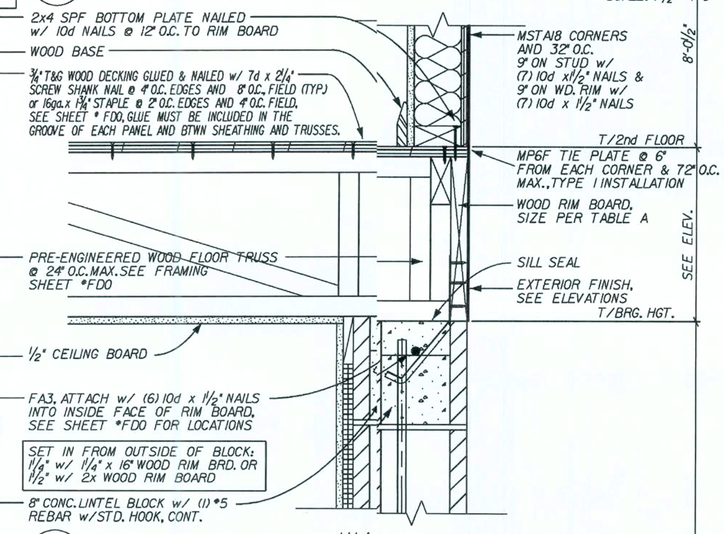
SCALE: 1 1/2" = 1'-0"



E — PARTIAL SECTION-TRUSS FLOOR SIDE WALL

REVISED 05-02-07 FLOOR DECK NAIL'G

SCALE: 1 1/2" = 1'-0"



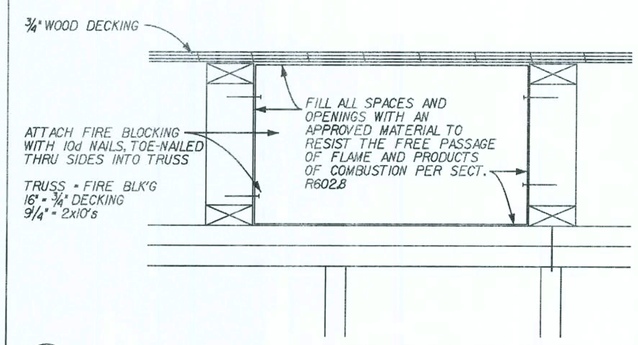
B — WALL SECTION-TRUSS FLOOR

REVISED 05-02-07 FLOOR DECK NAIL'G

SCALE: 1 1/2" = 1'-0"

TABLE A

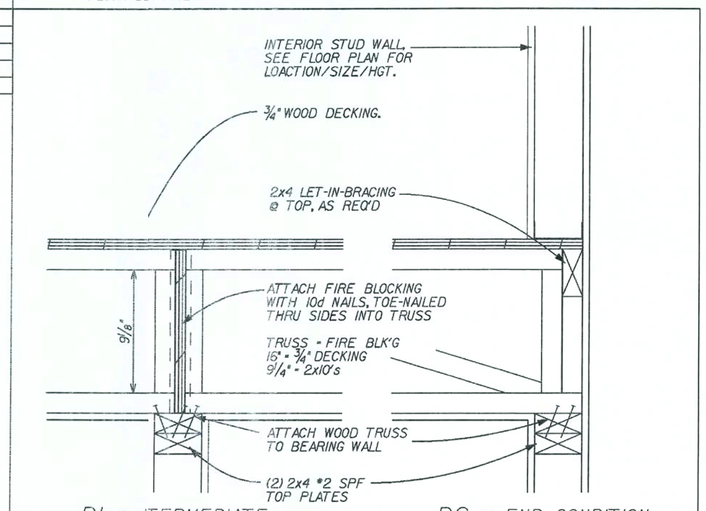
TRUSS DEP.	RIM BD.	# NAILS, RIM BRD. TO FLOOR TRUSS
9 1/4"	2x10	(4) 10d NAILS
11 1/4"	2x12	(6) 10d NAILS
16"	1 1/4" x 16"	(6) 10d NAILS



F — FIRE BLOCKING-TRUSS FLOOR

REVISED 05-05-06 REV. NOTE @ OPENINGS

SCALE: 1 1/2" = 1'-0"

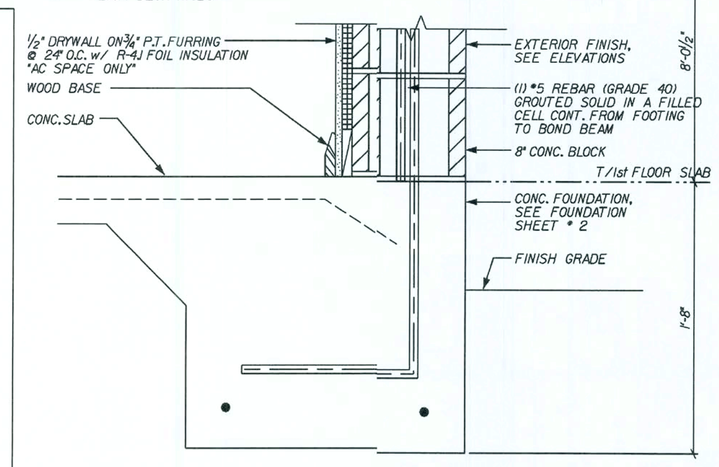


D1 @ INTERMEDIATE D2 @ END CONDITION

D — TYPICAL INTERIOR BEARING WALL-TRUSS FLOOR

REVISED 10-04-07 LET-IN BRACING NOTE

SCALE: 1 1/2" = 1'-0"



A — WALL SECTION-FOUNDATION @ BLOCK

REVISED 02-19-07 FOIL INSUL TO R-4.1

SCALE: 1 1/2" = 1'-0"

REVISIONS :

Maronda Homes

(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA: THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND 2006 SUPPLEMENT

TWO STORY

WALL SECTIONS

SUNBURY-NEWBERRY

GARAGE:

DRAWN BY:

RELEASE DATE: 10-08-04

PLOT DATE: 22 FEB 2008

11:50:59

p:\1\houses_05\sunbury\dfts\std_ws-sl.sws

Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

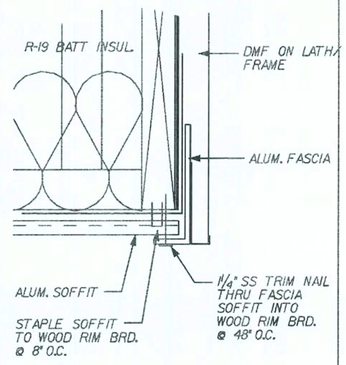
Elmer Bergman, P.E.
License No. 50158

MAY 02 2008

SHEET:

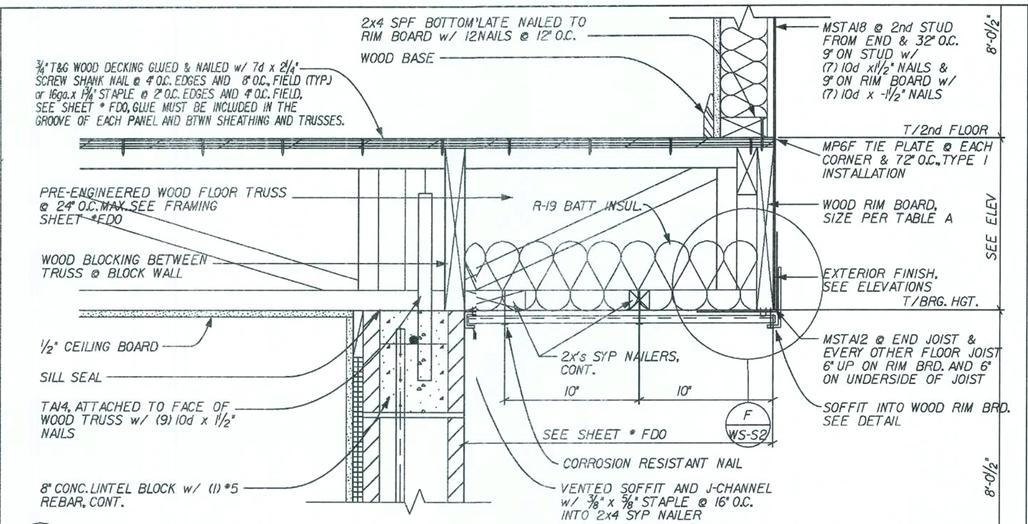
WS-S1

FLORIDA BUILDING CODE 2004 : RESIDENTIAL



F SOFFIT CONNECTION-TRUSS FLOOR

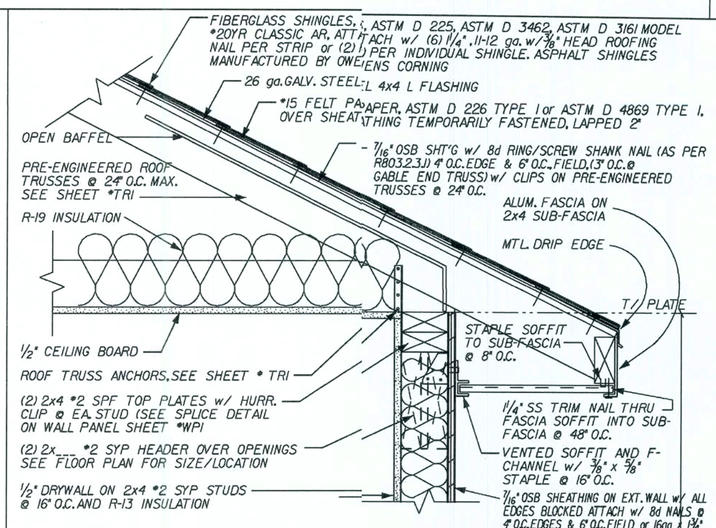
SCALE: 3" = 1'-0"



E WALL SECTION-TRUSS FLOOR OVERHANG

REVISED 05-02-07 FLOOR DECK NAIL'G

SCALE: 1½" = 1'-0"

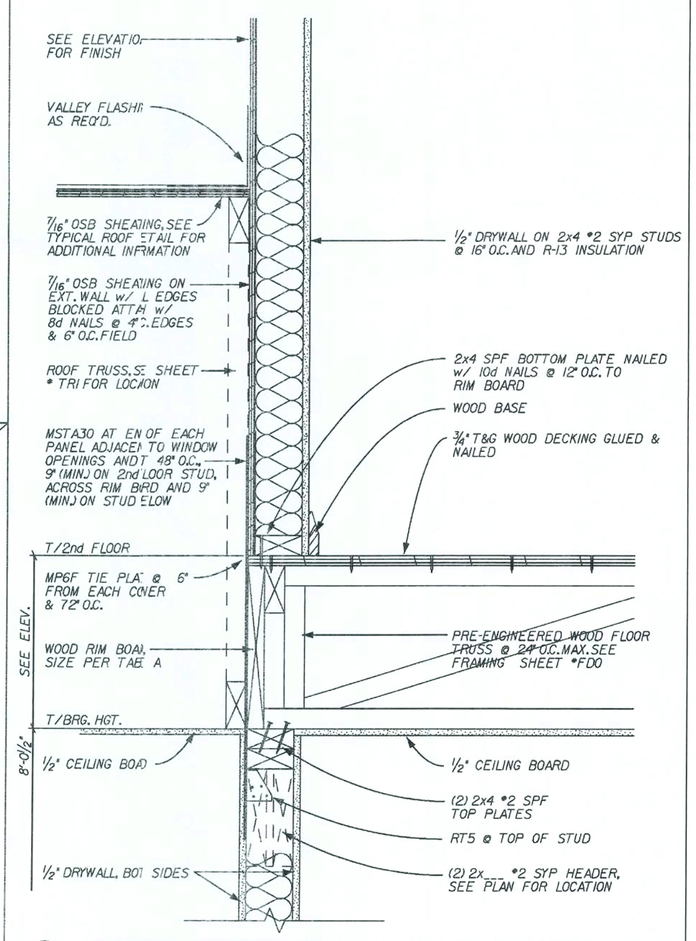


C WALL SECTION-FRAMED ROOF

REVISED 02-20-08 R-13 INSULATION

SCALE: 1½" = 1'-0"

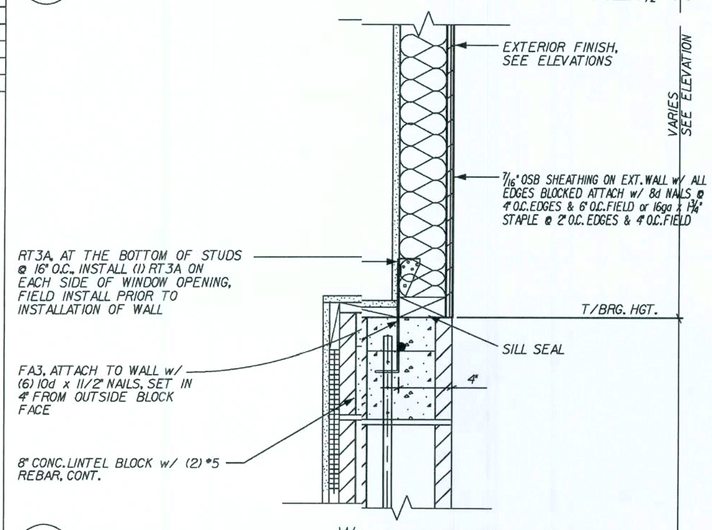
TABLE A		
TRUSS DEP.	RIM ℄	# NAILS, RIM BRD. TO FLOOR TRUSS
9¼"	2x6	(4) 10d NAILS
11¼"	2x6	(6) 10d NAILS
16"	1¼" 16"	(6) 10d NAILS



D PARTIAL SECTION-TRUSS FLOOR/BEARING WALL

REVISED 2-20-08 R-13 INSULATION

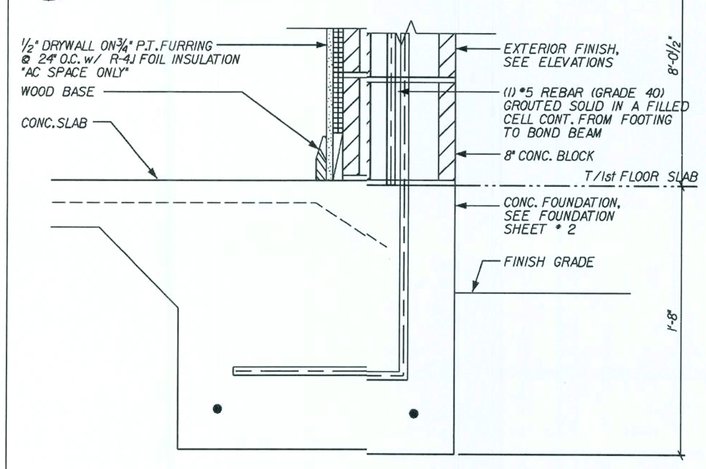
SCALE: 1½" = 1'-0"



B WALL SECTION-OPEN SPACE

REVISED 10-25-07 - RT3A AND FA3

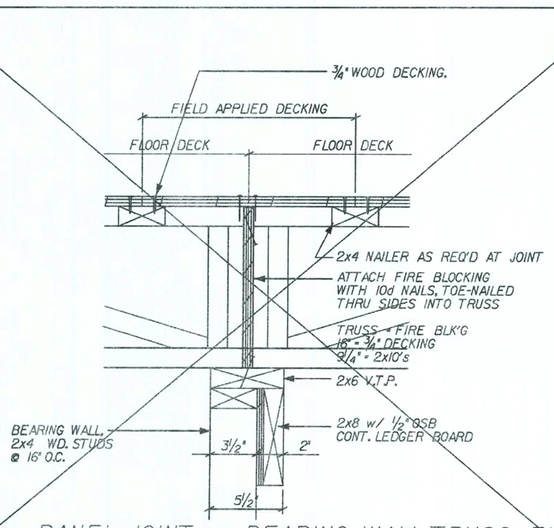
SCALE: 1½" = 1'-0"



A WALL SECTION-FOUNDATION @ BLOCK

REVISED 02-19-07 FOIL INSUL TO R-4J

SCALE: 1½" = 1'-0"



H PANEL JOINT @ BEARING WALL-TRUSS FLOOR

REVISED 12-04-07 : REV. FIRE BLOCKING

NOT USED

SCALE: 1½" = 1'-0"

REVISIONS :

Maronda Homes

(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA: THIS STRUCTURE WAS DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND2005, 2006 SUPPLEMENT

TWO STORY

WALL SECTIONS

SUNBURY-NEWBERRY

DRAWN BY:

GARAGE:

RELEASE DATE: 10-08-04

Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158

MAY 02 2008

SHEET:

WS-S2

PLOT DATE: 22 FEB 2008

11:51:00

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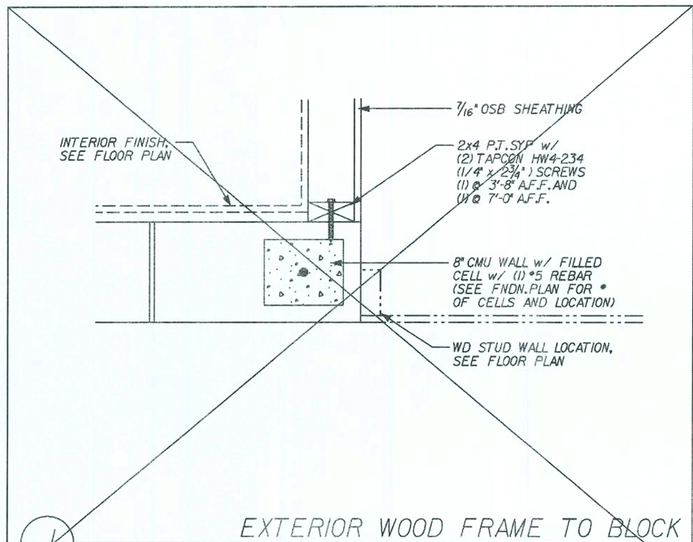
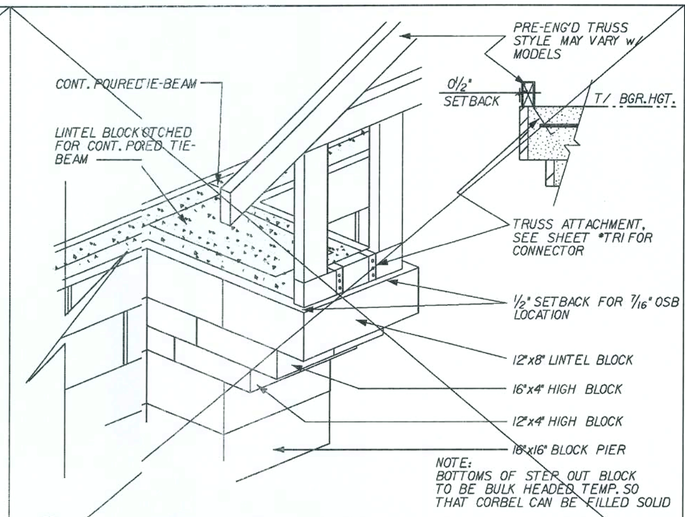
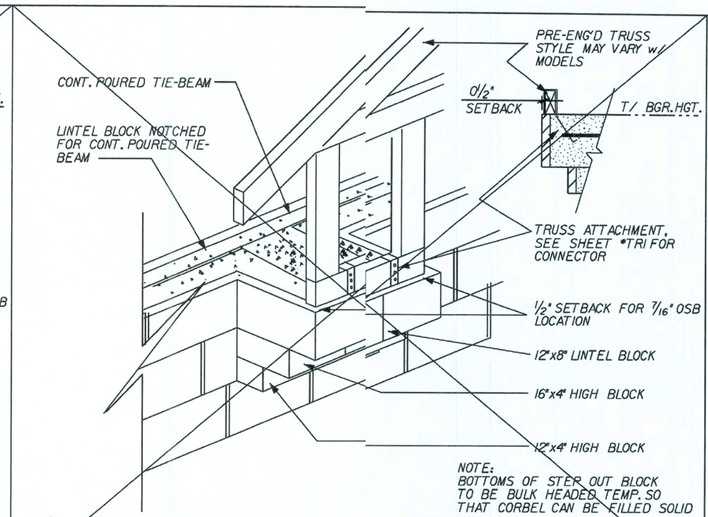
FLORIDA BUILDING CODE 2004 : RESIDENTIAL



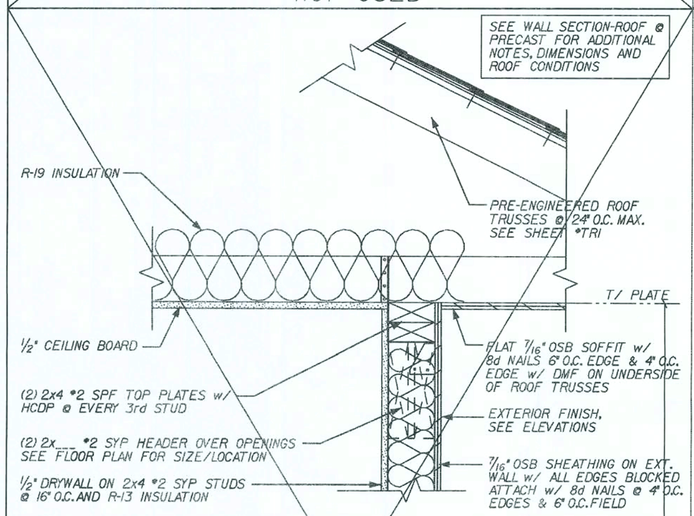
J EXTERIOR WOOD FRAME TO BLOCK
NOT USED
SCALE: 1 1/2" = 1'-0"



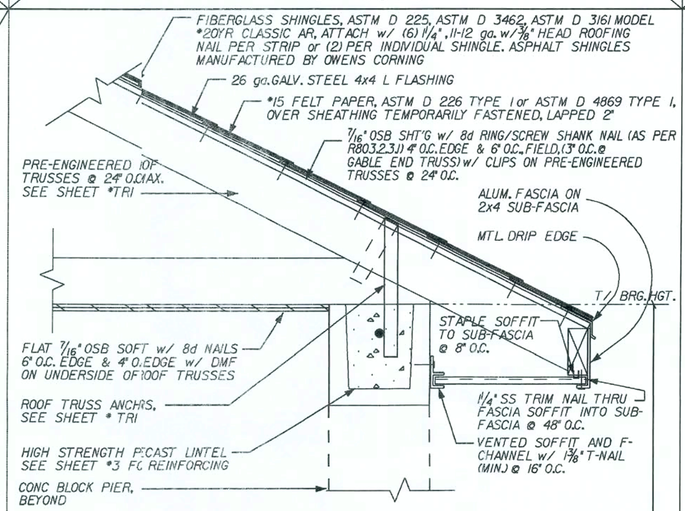
F 16" SQ. BLOCK PIER w/ BLOCK CORBEL ISO
NOT USED
SCALE: N.T.S.



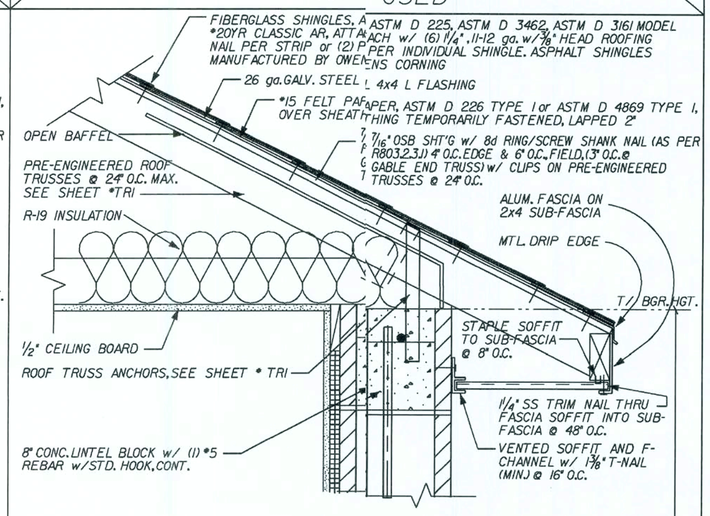
E BLOCK CORBEL ISO
NOT USED
SCALE: N.T.S.



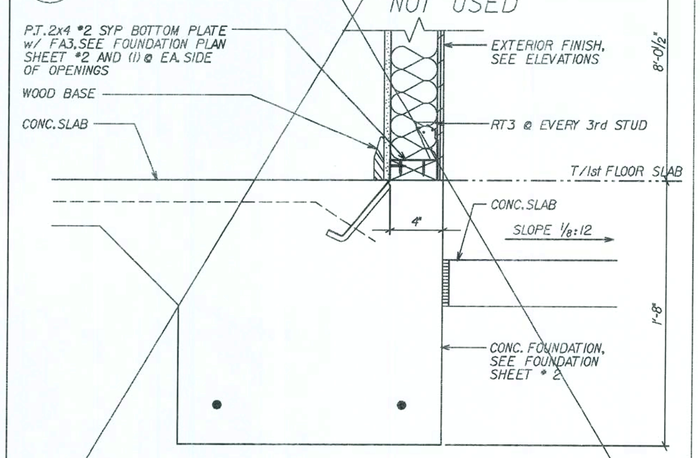
H WALL SECTION-ROOF @ WD. FRAME/ F. PORCH
REVISED 02-20-08 R-13 INSULATION
SCALE: 1 1/2" = 1'-0"



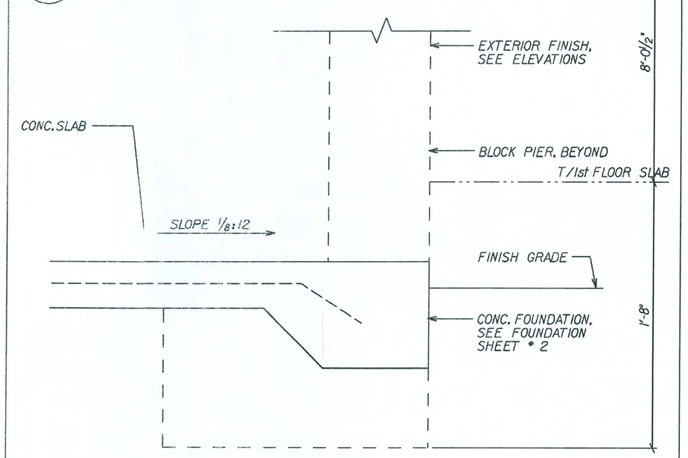
D WALL SECTION-ROOF @ PRECAST/FRONT PORCH
REVISED 02-07 - OSB ROOF NAIL TYPE
SCALE: 1 1/2" = 1'-0"



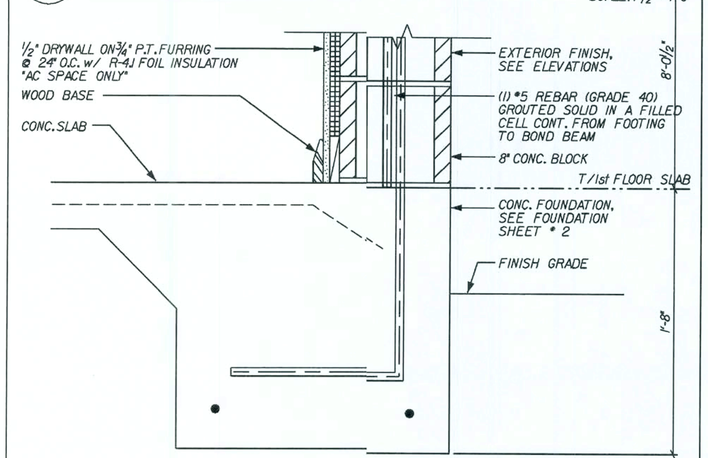
B WALL SECTION-ROOF @ BLOCK
REVISED 05-02-07 - OSB ROOF NAIL TYPE
SCALE: 1 1/2" = 1'-0"



G WALL SECTION-FOUNDATION @ WOOD FRAME
REVISED 10-25-04
NOT USED
SCALE: 1 1/2" = 1'-0"



C WALL SECTION-FOUNDATION @ FRONT PORCH
REVISED 02-05
SCALE: 1 1/2" = 1'-0"



A WALL SECTION-FOUNDATION @ BLOCK
REVISED 02-19-07 FOIL INSUL TO R-4.1
SCALE: 1 1/2" = 1'-0"

REVISIONS :

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND 2005, 2006 SUPPLEMENT

ONE STORY
WALL SECTIONS
SUNBURY-NEWBERRY

GARAGE:
DRAWN BY:
RELEASE DATE: 10-08-04

Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158
MAY 02 2008

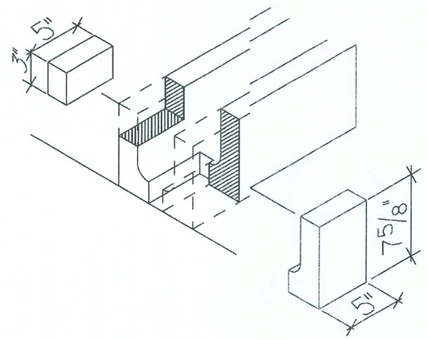
SHEET:
WS-B1

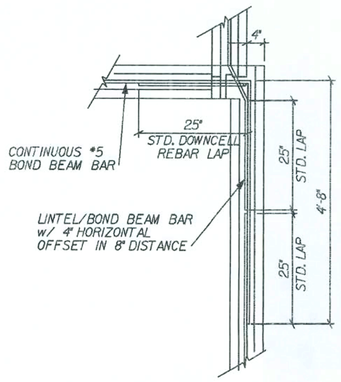
PLOT DATE: 22 FEB 2008 11:51:01 P:\Houses_05\sunbury\dfls\std_ws-bl.sws

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

USP HARDWARE - 160% REVISED 05-10-06

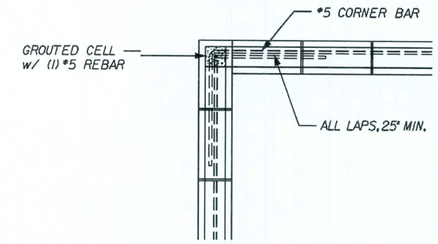
PRODUCT CODE #	MAN.	FASTENERS	UPLIFT
C44	USP	POST (6) 16d BEAM (6) 10d X 1½"	1000
FA3	USP	TOP (4) 10d X 1½" SIDE (2) 10d X 1½"	1155
HC520 CLIP	USP	PLATES (11) 8d STUD (6) 8d	445
HHCP2 CRNR CLIP	USP	TRUSS (10) 10d X 1½" PLATE (10) 10d X 1½"	800
HTA 20 ANCHOR	USP	(14) 10d X 1½"	1615
HTA 20(2) ANCHOR	USP	(13) 10d X 1½"	3230
HTW24	USP	(20) 10d	1325
HUGT2	USP	CONC. ANC.BOLT (2)3/4"-(2)¾"WASH 3¼" EMBED. -ALL GRDR.-(8) 10d	9790
HUGT3	USP	CONC. ANC.BOLT (2)3/4"-(2)¾"WASH 3¼" EMBED. -ALL GRDR.-(8) 10d	9860
JUS 26	USP	(4) 10d HEADER (4) 10d TRUSS	1115
KST227 STRP ANC.	USP	(34) 16d	4750
LPTA	USP	FACE OF GABLE W/ 2x4 (11) 10d x 1½"	1250
LSTA36	USP	(22) 10d X 1½"	1640
LTW12	USP	(12) 10d	670
LTS20 STRAP ANC	USP	ANCHOR-1/2" WEDGE BOLT 3¼" EMBED. (10) 10d X 1½"STRAP	1890
LBP12 BEARING PLT	USP	½" J-BOLT	2515
LFTA6	USP	PLATE (8) 8d STUD (8) 8d	1035
MP6F	USP	HEADER/STUD (6) 8d TYPE 1 JOIST/PLATE (6) 8d	605
MPAI & MPAIF	USP	HEADER/STUD (6) 8d JOIST/PLATE (6) 8d	660
MSTAI2	USP	(10) 10d	1015
MSTAI8	USP	(14) 10d	1420
MSTA24	USP	(18) 10d	1640
MSTA30	USP	(22) 10d	2065
MTW12	USP	(14) 10d	1030
MTW18	USP	(14) 10d	1030
MTS27B STRP ANC	USP	(24) 16d (1)¾" ANCHOR BOLT 3¼" EMBEDDED	4635
MUGT15	USP	(22) 10d (1)⅝" ANCHOR BOLT 3¾" EMBEDDED	4165
NP37 3⅛X 7	USP	HEADER (6) 16d TOP OF BOT. SEC.(6) 10d X 1½"	
PA 28	USP	(15) 16d	3360
RT-16	USP	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"	1030
RT-16A	USP	TRUSS (9) 10d x 1½" PLATE (8) 10d	1380
RT16-2	USP	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"	1160
RT5 CLIPS L/R	USP	TRUSS (4) 8d PLATE (4) 8d	540
RT3 CLIPS L/R	USP	(4) 8d TOP (4) 8d BOTTOM	530
SKH 26 L\R	USP	HEADER (6) 16d JACK (6) 10d X 1½"	1085
SKHH26 L/R	USP	HEADER (18) 16d JACK (12) 10d X 1½"	2190
SUH 26	USP	HEADER (6) 10d JACK (4) 10d X 1½"	725
SUH 28	USP	HEADER (8) 10d JACK (6) 10d X 1½"	800
TAI2 TA 12/METAL	USP	(5) #10 SCREWS (9) #10 SCREWS	825 910
TA 14	USP	(7) 10d x 1½"	920
TA 18	USP	(8) 10d x 1½"	1205
(2)TA 18	USP	(8) 10d x 1½" 1-PLY (8) 10d x 1½" 2-PLY	2410 2410
TA 24	USP	(8) 10d x 1½"	1205
(2)TA 24	USP	(8) 10d x 1½" 1-PLY (8) 10d x 1½" 2-PLY	2410 2410
THD26	USP	HEADER (18) 16d TRUSS (12) 10d X 1½"	2170
THD28	USP	HEADER (28) 16d TRUSS (16) 10d X 1½"	2330
THD28-2	USP	HEADER (28) 16d TRUSS (16) 10d X 1½"	2485
THDH28-3	USP	HEADER (36) 16d TRUSS (16) 10d X 1½"	2665
THD48	USP	HEADER (28) 16d TRUSS (16) 10d X 1½"	2485
THJ 26 2	CLEVELAND	HIP(7)10d-HEADER(16)16d JACK (5) 10d x1½"	1010
USC63	USP	TRUSS (8) 10d (4)¾" EXP. BOLTS #6170 2¾" EMBEDDED	1150
USC3F	USP	TRUSS (8) 10d (4)¾" EXP. BOLTS #6170 2¾" EMBEDDED	1150
USC73	USP	TRUSS (8) 16d (4)¾" EXP. BOLTS #6170 2¾" EMBEDDED	1150
UGTS63	USP	TRUSS (8) 16d (2)¾" ANC. BOLTS 2¾"" EMBEDDED	6170





MODIFIED LINTEL @FRONT PORCH

SCALE: N.T.S.

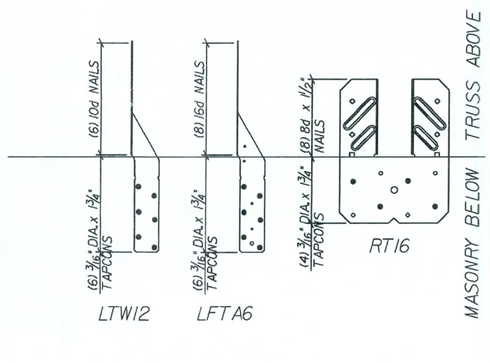


TYPICAL BOND BEAM @ CORNER

REVISED 04-22-05

SCALE: ½" = 1'-0"

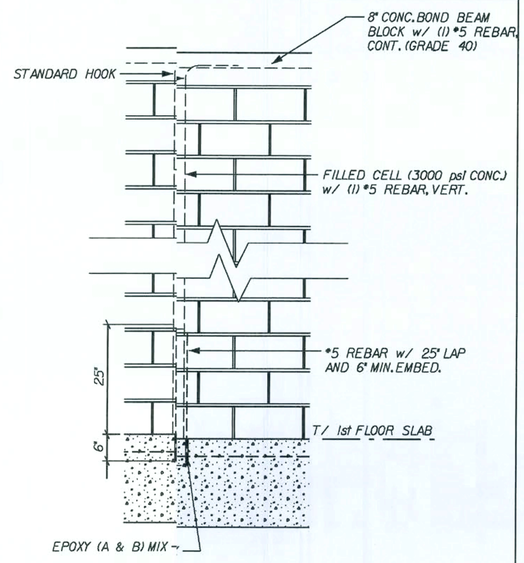
CONNECTOR	MAX. UPLIFT
LTW12	775 LBS
LFTA6	990 LBS
RT16	700 LBS



FOR MISSED FLOOR ANCHORS, CONSULT ENGINEER STAFF

ANCHOR FASTENING SCHEDULE
MISSED ROOF TIE DOWN REPAIR

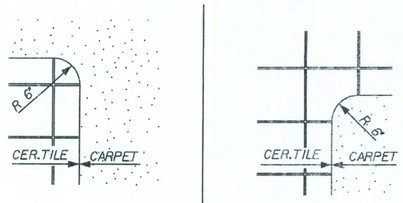
SCALE: N.T.S.



MISSED DOWN ROD REPAIR

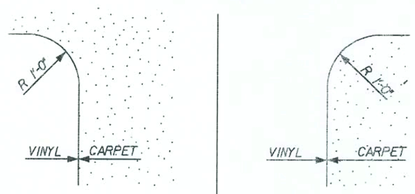
SCALE: ½" = 1'-0"

CERAMIC TILE TO CARPET



OUTSIDE CORNER INSIDE CORNER

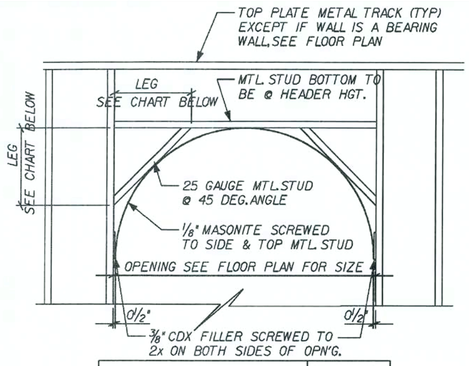
VINYL TO CARET



OUTSIDE CORNER INSIDE CORNER

FLOOR EDGE CORNER DETAIL

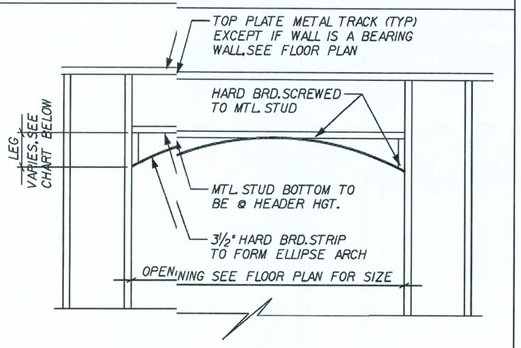
SCALE: ½" = 1'-0"



OPENING	LEGS
2'-1" - 2'-0" ARCH OPENING	7½"
2'-7" - 2'-6" ARCH OPENING	8⅞"
2'-9" - 2'-8" ARCH OPENING	9 7/16"
3'-1" - 3'-0" ARCH OPENING	10⅝"
4'-1" - 4'-0" ARCH OPENING	15"
-	-

INTERIOR CURVED ARCH

SCALE: ½" = 1'-0"



OPENING	LEGS
2'-0" - 3'-1"	4"
3'-2" - 4'-0"	5½"
4'-1" - 5'-0"	6½"
5'-1" - 7'-0"	8"
7'-1" - 9'-0"	9½"
9'-1" - 12'-0"	12"

INTERIOR ELLIPSE ARCH

SCALE: ½" = 1'-0"

REVISIONS :

Maronda Homes

(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 RESIDENTIAL AND 2005, 2006 SUPPLEMENT

STANDARD DETAILS

AMERICANA

SUNBURY-NEWBERRY

GARAGE:

DRAWN BY:

RELEASE DATE: 10-08-04

PLOT DATE: 22 FEB 2008 11:51:02

p:\houses_05\sunbury\dtls\std_details.sdl

Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158

MAY 02 2008

SHEET:

SD1

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

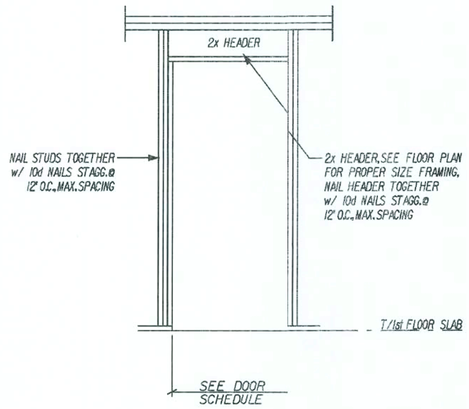
REVISED 02-15-07
83¾" -> 82⅞"

DOOR SCHEDULE

DOOR TYPE	ACTUAL SIZE	ROUGH FRAME OPENING	ROUGH BLOCK OPENING 2" BUCK
2-0 STANDARD I.S.	25½" x 80⅝"	26" x 80⅛"	29" x 82⅜"
2-8 STANDARD I.S.	33½" x 80⅝"	34" x 80⅛"	37" x 82⅜"
2-10 STANDARD I.S.	35½" x 80⅝"	36" x 80⅛"	39" x 82⅜"
3-0 STANDARD I.S.	37½" x 82"	38" x 82¼"	41" x 82⅜"
3-0 w/SIDELIGHT I.S.	51⅛" x 82"	51⅝" x 82¼"	54⅜" x 82⅜"
3-0 w/(2) SIDELIGHT I.S.	64½" x 82"	65" x 82¼"	68" x 82⅜"
5-8 (2)2-10 FRENCH I.S.	70½" x 80⅝"	71" x 80⅛"	74" x 82⅜"

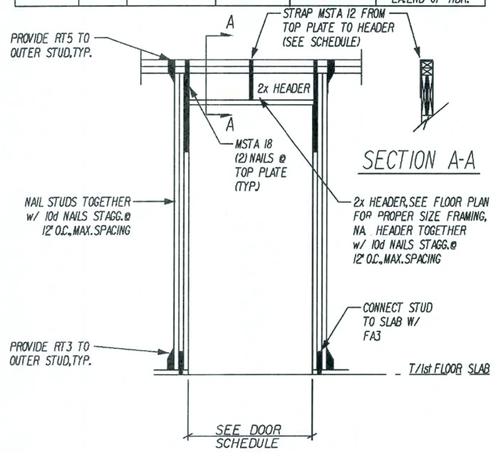
** FINISH OPENING IS DETERMINED BY ACTUAL SIZE ¼" FOR HEIGHT
** FINISH OPENING IS DETERMINED BY ACTUAL SIZE ½" FOR WIDTH
** O.S. = OUTSWING
** I.S. = INSWING

MAX. OPN'G SIZE	JACKS @ EA.END	HEADER SIZE	STUDS @ EA.END 8'-0" MAX.HGT.	TUDS @ EA.END 11" MAX.HGT.	
2'-3"	(1)	2x HEADER, SEE FLOOR PLAN FOR PROPER SIZE FRAMING	1	2	
3'-3"	(1)		2	2	
6'-3"	(1)		2	3	

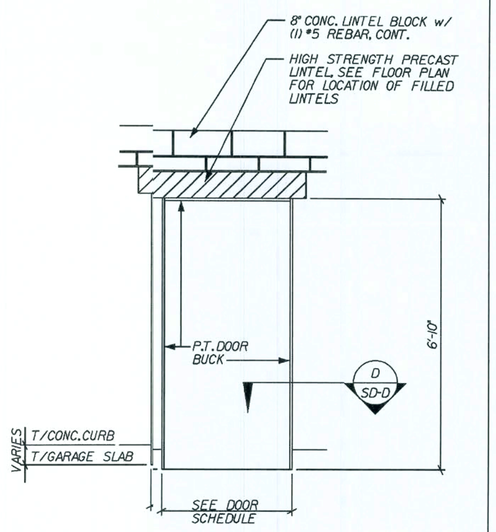


K STD.DOOR - WD FRAME, NO-UPLIFT
SCALE: N.T.S.

MAX. OPN'G SIZE	JACKS @ EA.END	HEADER SIZE	STUDS @ EA.END 8'-0" MAX.HGT.	STUDS @ EA.END 10'-0" MAX.HGT.	MSTA 12
2'-3"	(1)	2x HEADER, SEE FLOOR PLAN FOR PROPER SIZE FRAMING	1	2	N/A
3'-3"	(1)		2	2	(1) @ CEN.OF HDR.
6'-3"	(1)		2	3	(1) @ 2'-0" OFF EA.END OF HDR.

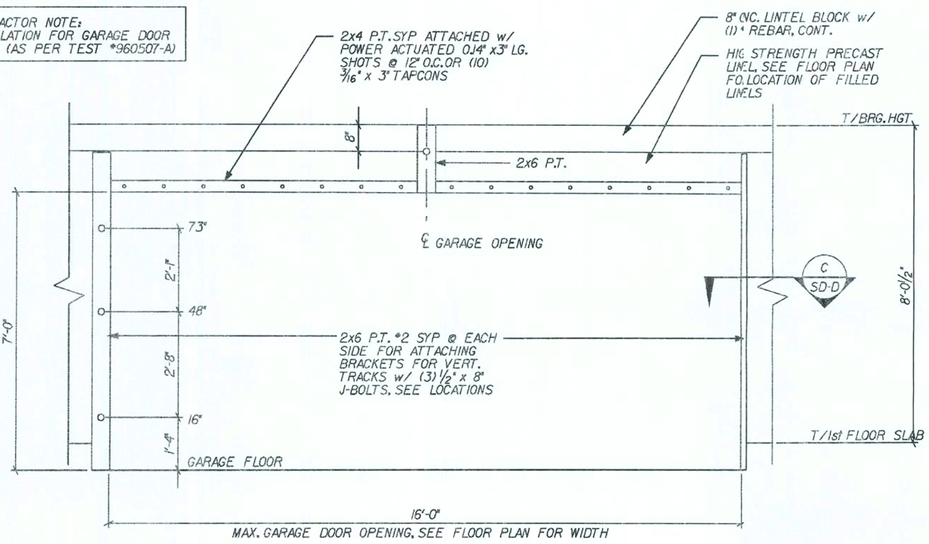


J STD.DOOR - WD FRAME, UPLIFT
SCALE: N.T.S.

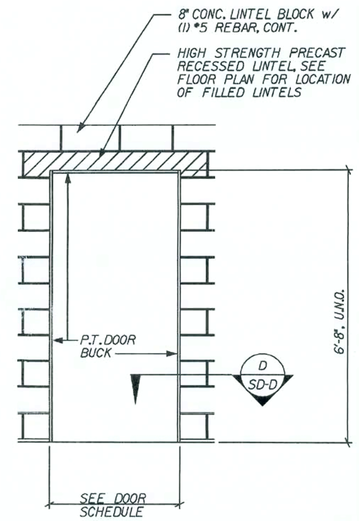


H OPTIONAL SERVICE DOOR
REVISED 08-12-04
SCALE: ⅜" = 1'-0"

CONTRACTOR NOTE:
INSTALLATION FOR GARAGE DOOR TYPES (AS PER TEST #960507-A)

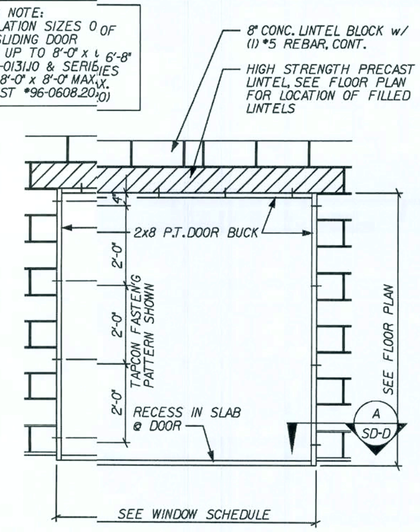


G GARAGE DOOR ELEVATION
SCALE: ⅜" = 1'-0"

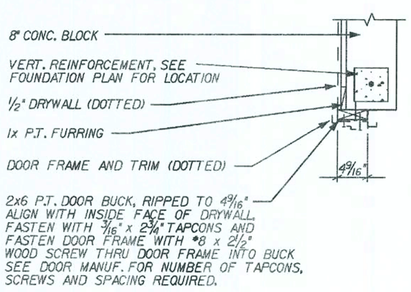


F STANDARD DOOR ELEVATION
SCALE: ⅜" = 1'-0"

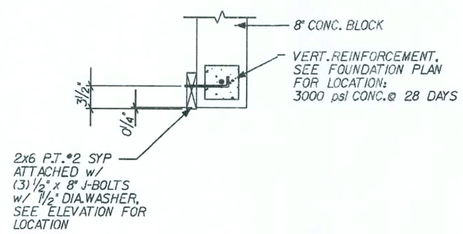
CONTRACTOR NOTE:
FOR INSTALLATION SIZES OF NORANDEX SLIDING DOOR SERIES 500 UP TO 8'-0" x 6'-8" AS PER #96-0131J0 & SERIES 502 UP TO 8'-0" x 8'-0" MAX. (AS PER TEST #96-0608.20)



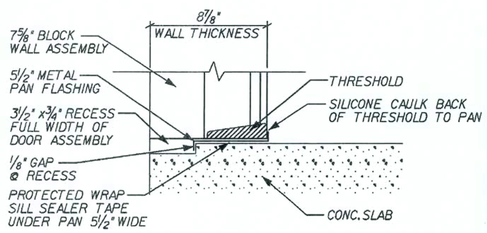
E SLIDING GLASS DOOR ELEVATION
SCALE: ⅜" = 1'-0"



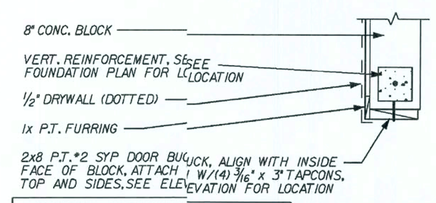
D 2x DOOR BUCK DETAIL
SCALE: ¾" = 1'-0"



C GARAGE DOOR BUCK DETAIL
SCALE: ¾" = 1'-0"



B DOOR PAN FLASHING
REVISED 06-08-06
NEW DETAIL
SCALE: ¾" = 1'-0"



A SLIDING GLASS DOOR BUCK DETAIL
REVISED 10-21-04
SCALE: ¾" = 1'-0"

REVISIONS :
06-12-06 ADDED DOOR PAN DETAIL

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND2005, 2006 SUPPLEMENT

DOORS STANDARD DETAILS

SUNBURY-NEWBERRY

GARAGE:
DRAWN BY:
RELEASE DATE: 10-08-04

P:\N houses_05\sunbury\dtls\std_doors.sdd
11:51:03
PLOT DATE: 22 FEB 2008

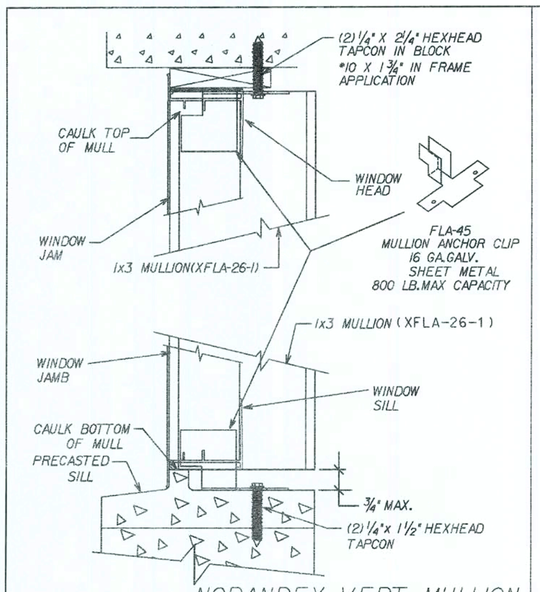
Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158

MAY 02 2008

SHEET:
SD-D

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

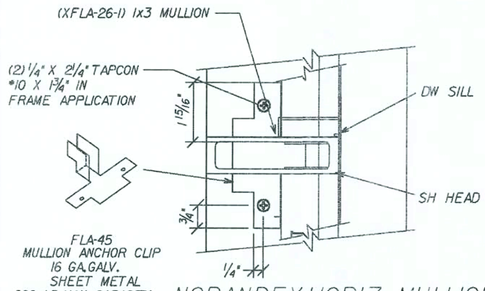


NORANDEX VERT. MULLION CLIP STYLE FLA-45

SCALE: 3/4" = 1'-0"

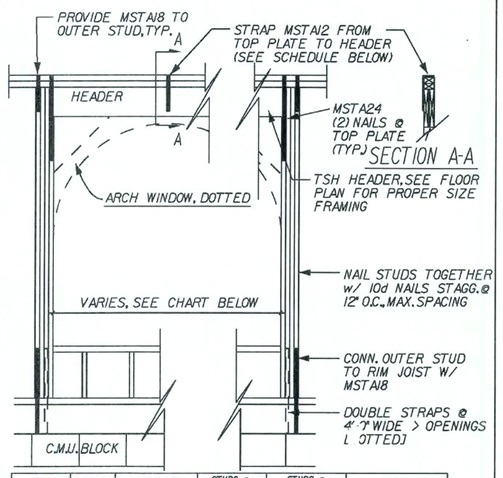
CONTRACTOR NOTE:
FOR INSTALLATION SIZS OF NORANDEX WINDOW SEIES 437/438 UP TO 53 1/8".76 3/8" AS PER TEST #96-062.20

STANDARD WINDOW DEAILS IN BLOCK WALLS UP TO 1 FEET HIGH



NORANDEX HORIZ. MULLION CLIP STYLE FLA-45

SCALE: 3/4" = 1'-0"

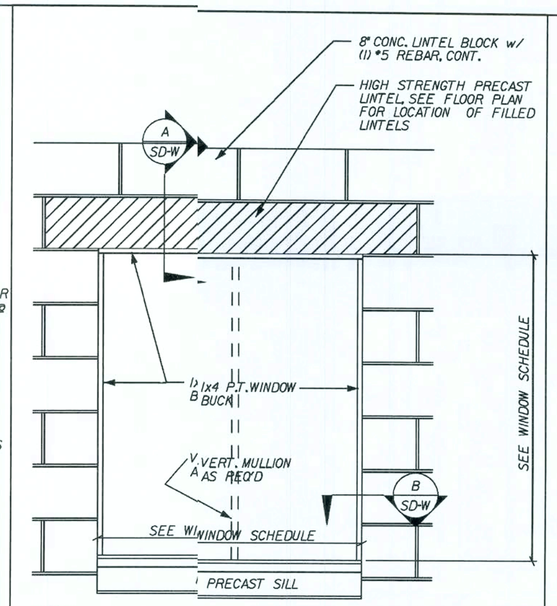


MAX. OPN'G SIZE	JACKS @ EA.END	HEADER SIZE	STUDS @ EA.END 8'-0" MAX.HGT.	STUDS @ EA.END 10'-0" MAX.HGT.	MSTA 12
2'-3"	(1)	2x HEADER, SEE FLOOR PLAN FOR PROPER SIZE FRAMING	1	2	N/A
3'-3"	(1)		1	2	(1) @ CEN.OF HOR.
6'-3"	(2)		2	3	(1) @ 2'-0" OFF EA.END OF HOR.

K TYP.HEADER DETAIL-2ND FLOOR FRAMING

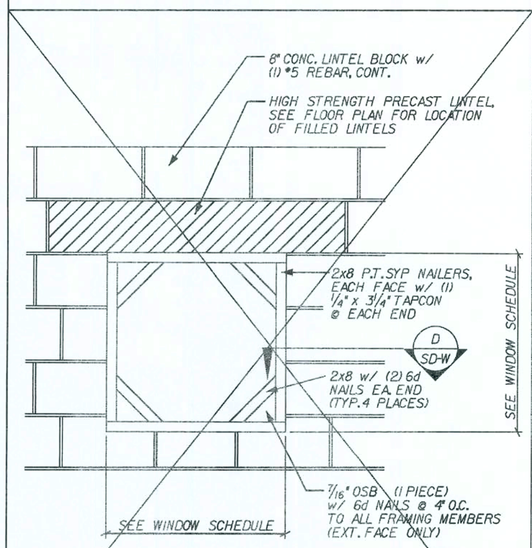
REVISED 06-06-07 : PER WALL PANELS

SCALE: N.T.S.



J WINDOW-STANDARD-BLK

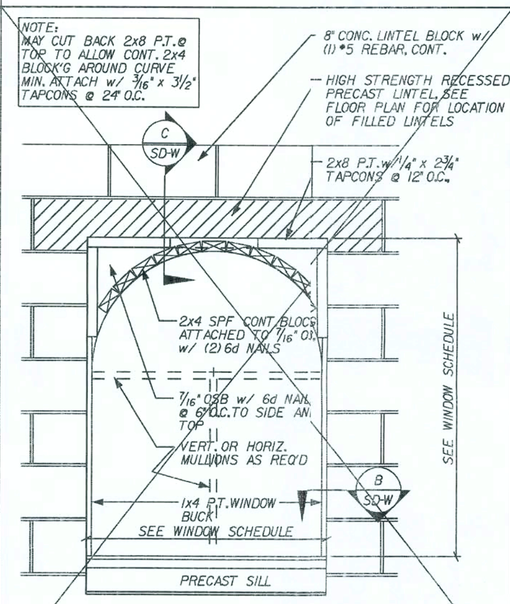
SCALE: 3/4" = 1'-0"



H WINDOW-OCTAGON-BLK

NOT USED

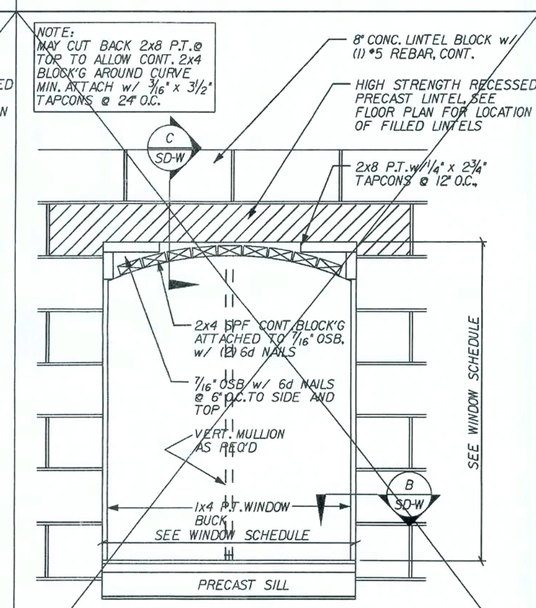
SCALE: 3/4" = 1'-0"



G WINDOW-1/2 ROUND TOP-BLK

NOT USED

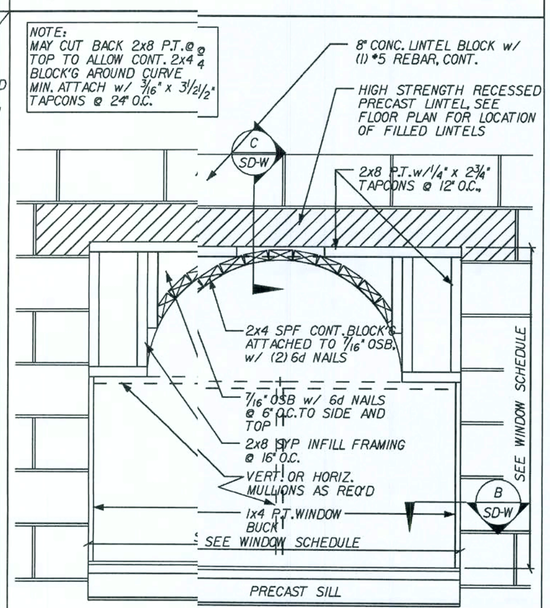
SCALE: 3/4" = 1'-0"



F WINDOW-EYEBROW-BLK

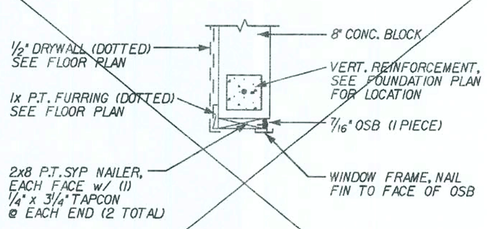
NOT USED

SCALE: 3/4" = 1'-0"



E WINDOW-COMBINATION-BLK

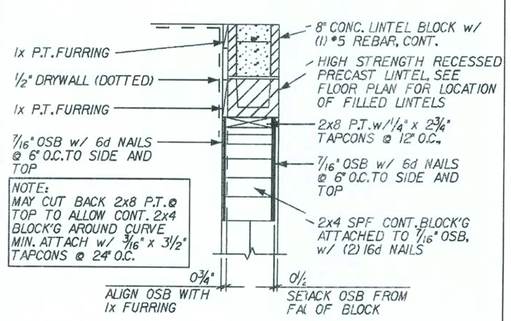
SCALE: 3/4" = 1'-0"



D WINDOW JAMB-OCTAGON-BLK

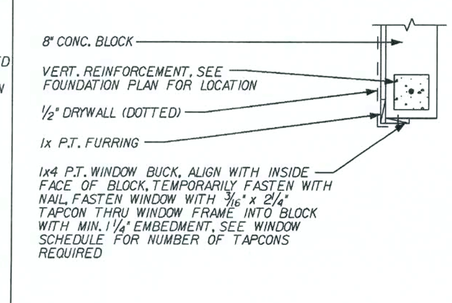
NOT USED

SCALE: 3/4" = 1'-0"



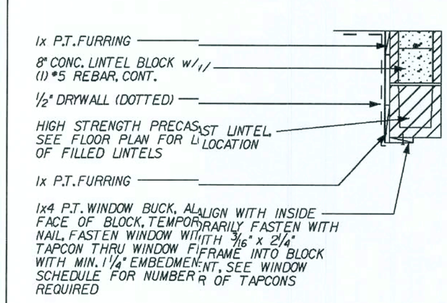
C WINDOW HEAD-ARH WINDOW-BLK

SCALE: 3/4" = 1'-0"



B WINDOW JAMB-STANDARD-BLK

SCALE: 3/4" = 1'-0"



A WINDOW HEAD-STANDARD-BLK

SCALE: 3/4" = 1'-0"

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

REVISIONS :

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND 2005, 2006 SUPPLEMENT

WINDOWS | STANDARD DETAILS

SUNBURY-NEWBERRY

GARAGE:

DRAWN BY:

RELEASE DATE: 10-08-04

Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158

MAY 02 2008

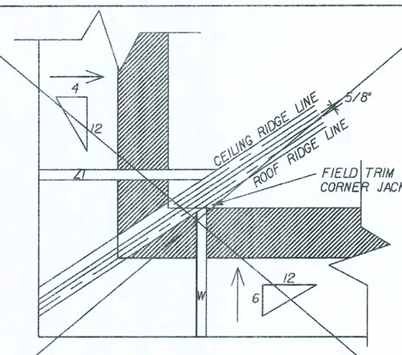
SHEET:

SD-W

PLOT DATE: 22 FEB 2008

11:51:06

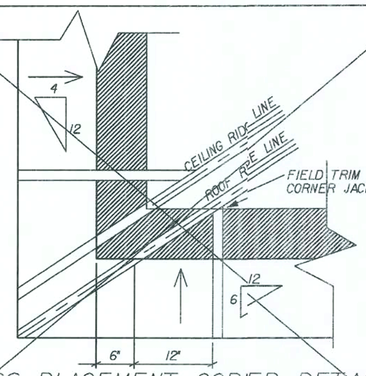
P:\V7houses_05\sunbury\dfls\sfd_windows.sdw



TRUSS PLACEMENT CORNER DETAIL B

NOT USED

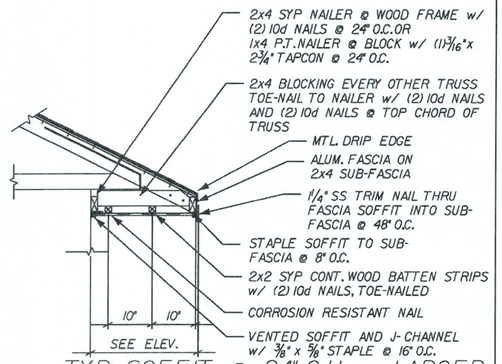
SCALE: N.T.S.



TRUSS PLACEMENT CORNER DETAIL A

NOT USED

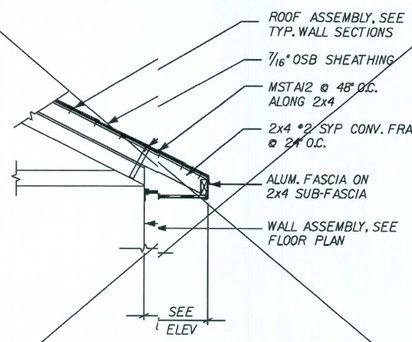
SCALE: N.T.S.



TYP. SOFFIT @ 24" O.H. or LARGER

REVISED 01-11-05

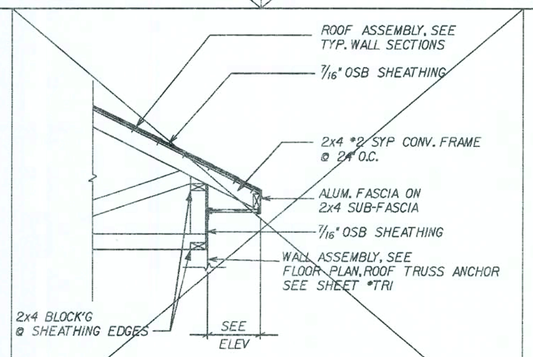
SCALE: 1/2" = 1'-0"



CONV. FRAMED HIP ROOF

NOT USED

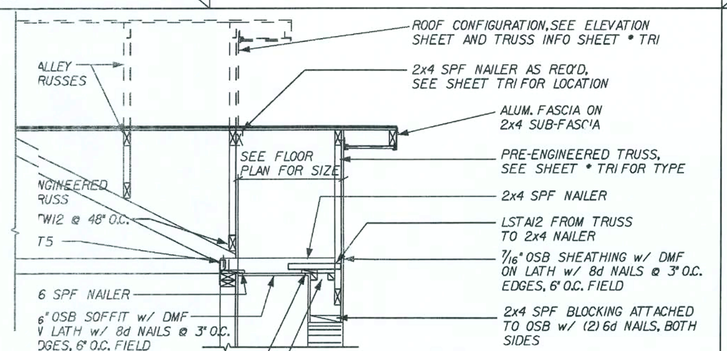
SCALE: 1/2" = 1'-0"



DETAIL @ RAISED HEEL

NOT USED

SCALE: 1/2" = 1'-0"

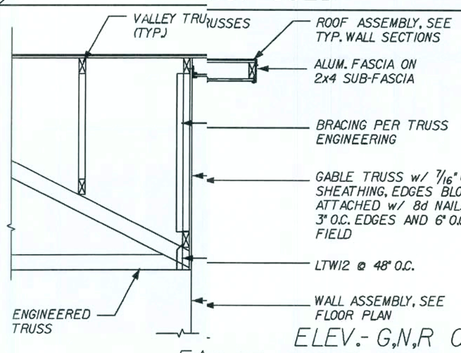


HIGH ENTRY GABLE BRACING & SHEATHING CONNECTION DETAIL

NOTE: GABLE BRACED BY ROOF AND/OR CEILING DIAPHRAGM STRONGBACK AND CONNECTIONS. NO X-BRACING NEEDED.

ELEV.- I,J,P,T ONLY

SCALE: 1/2" = 1'-0"

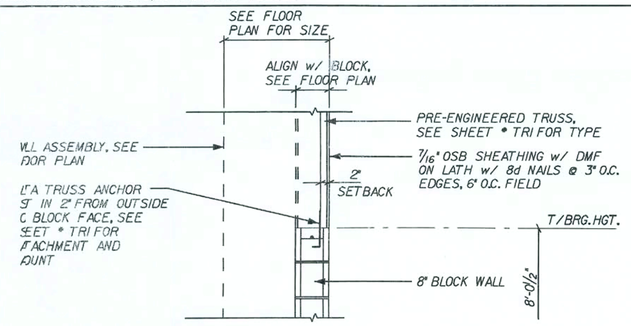


FALSE GABLE BRACING & SHEATHING CONNECTION DETAIL

ELEV.- G,N,R ONLY

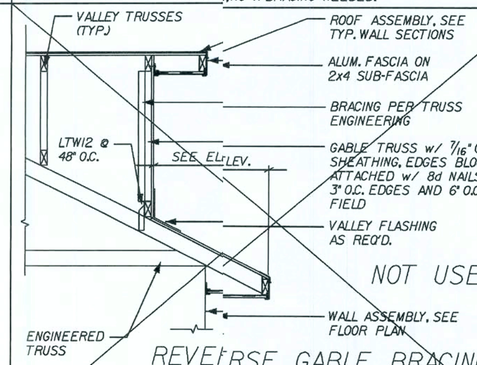
NOTE: GABLE BRACED BY ROOF AND/OR CEILING DIAPHRAGM STRONGBACK AND CONNECTIONS. NO X-BRACING NEEDED.

SCALE: 1/2" = 1'-0"



TRUSS / BLOCK CONNECTION DETAIL

SCALE: 1/2" = 1'-0"

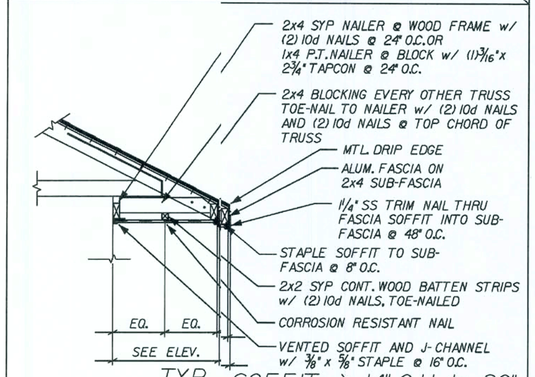


NOT USED

REVERSE GABLE BRACING & SHEATHING CONNECTION DETAIL

NOTE: GABLE BRACED BY ROOF AND/OR CEILING DIAPHRAGM STRONGBACK AND CONNECTIONS. NO X-BRACING NEEDED.

SCALE: 1/2" = 1'-0"



TYP. SOFFIT > 14" O.H. to 20"

REVISED 12-20-06

SCALE: 1/2" = 1'-0"

REVISIONS :

Maronda Homes

(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA: THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 RESIDENTIAL AND 2006 SUPPLEMENT

ROOF STANDARD DETAILS

SUNBURY-NEWBERRY

GARAGE:

DRAWN BY:

RELEASE DATE: 10-08-04

PLOT DATE: 22 FEB 2008 11:51:09

pw:\\houses_05\sunbury\dtls\std_roof.sdt

Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

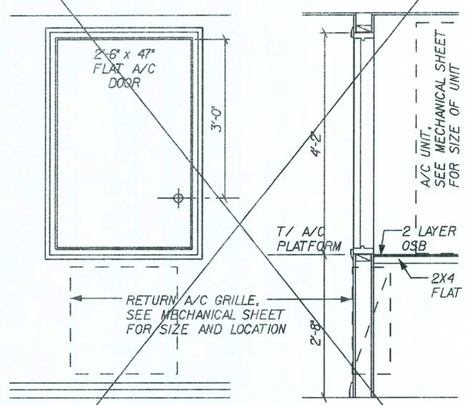
Elmer Bergman, P.E.
License No. 50158

MAY 02 2008

SHEET:

SD-R

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

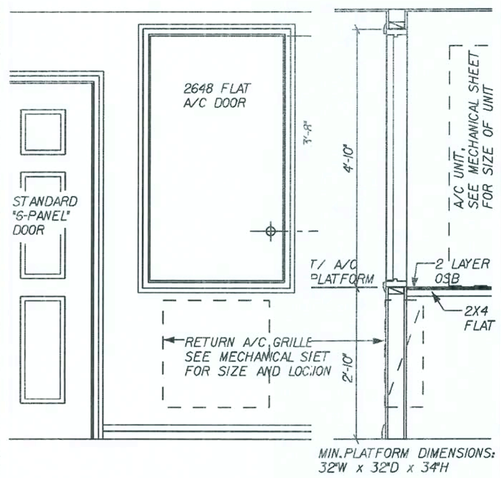


ELEVATION SECTION

7'-0" CEIL. ENCLOSED A/C PLATFORM

NOT USED

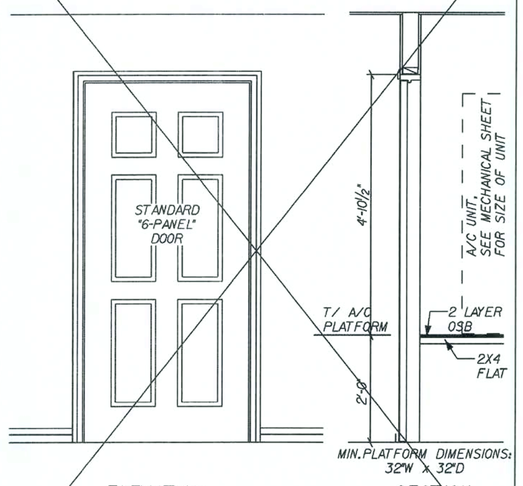
SCALE: 1/2" = 1'-0"



ELEVATION SECTION

ENCLOSED A/C PLATFORM

SCALE: 1/2" = 1'-0"

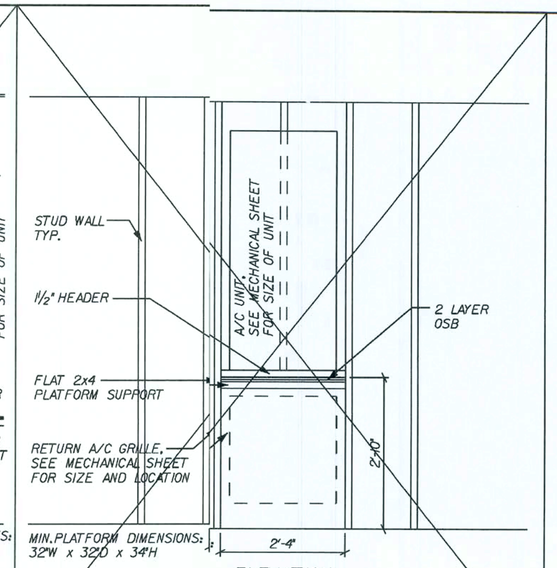


ELEVATION SECTION

FULL DOOR ENCLOSED A/C PLATFORM

NOT USED

SCALE: 1/2" = 1'-0"

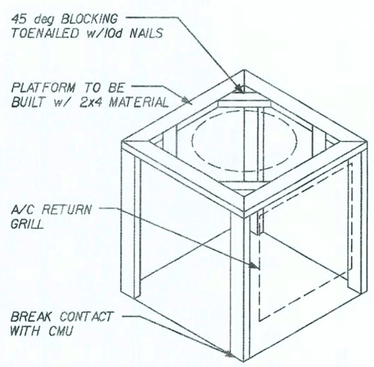


ELEVATION

OPEN A/C PLATFORM

NOT USED

SCALE: 1/2" = 1'-0"



A/C PLATFORM FRAMING

REVISED 01-24-05

SCALE: 1/2" = 1'-0"

REVISIONS :

Maronda Homes

(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND 2005, 2006 SUPPLEMENT

STANDARD PLATFORM DETAILS

SUNBURY-NEWBERRY

AIR-HEAT DETAILS

DRAWN BY:

GARAGE:

RELEASE DATE: 10-08-04

11/5/09

PLOT DATE: 22 FEB 2008

p:\f1houses_05\sunbury\dtls\std_heating.sdh

Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158

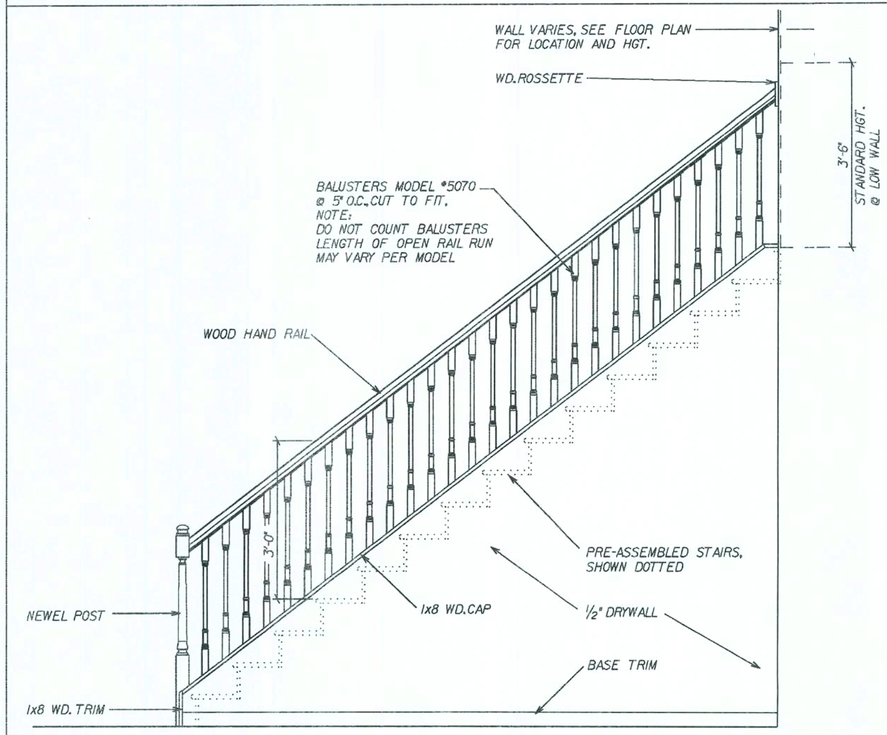
MAY 02 2008

SHEET:

SD-H

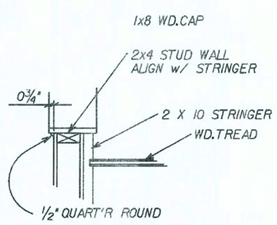
FLORIDA BUILDING CODE 2004 : RESIDENTIAL

RG OPTIONAL WOOD RAILING AND SPINDELS IN LIEU OF 42" DRYWALL SLOPED WALL

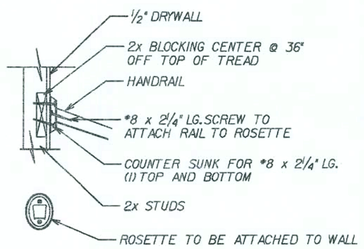


OPEN RAIL STAIR ELEVATION

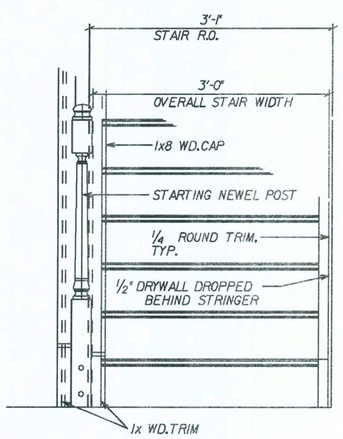
SCALE: 1/2" = 1'-0"

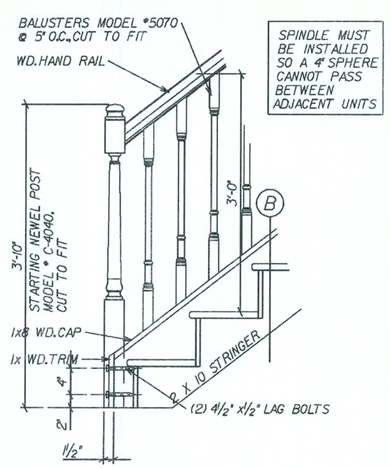


SECTION B



RAIL ATTACHMENT TO WALL

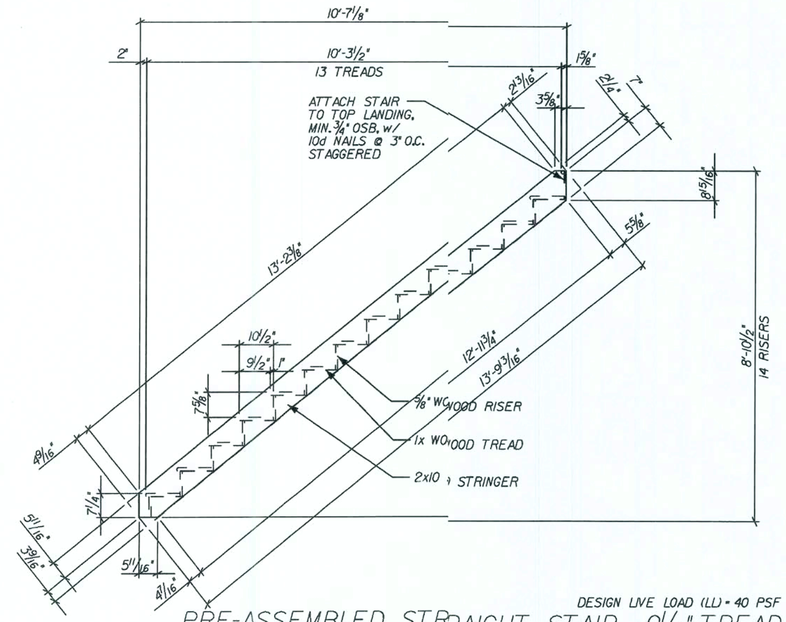




OPTIONAL OPEN RAIL STAIR DETAILS

REVISED 01-25-05

SCALE: 3/4" = 1'-0"

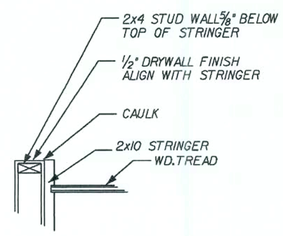


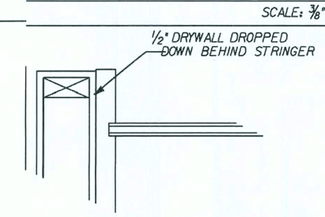
PRE-ASSEMBLED STRAIGHT STAIR : 9 1/2" TREAD

DESIGN LIVE LOAD (LL) = 40 PSF

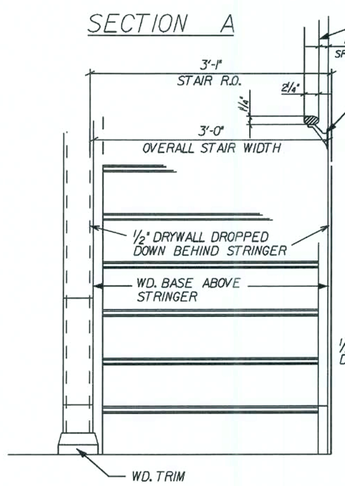
REVISED 08-24-06 NAILING ATTACHMENT

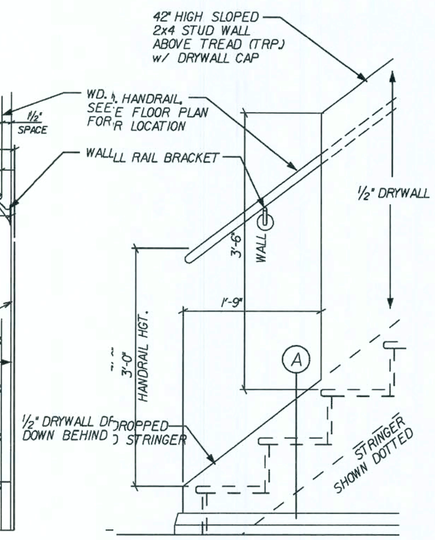
SCALE: 3/8" = 1'-0"





SECTION A





NOTE:
SECTION R311.5.6.2 HANDRAIL ENDS SHALL BE RETURNED TO WALL

STANDARD STAIR w/ 42" HIGH WALL

REVISED 11-12-07
ADDED WOOD BASE ABOVE STRINGER

SCALE: 3/4" = 1'-0"

REVISIONS :

01-16-06 STD. STAIR DETAIL w/ 21" STEP

Maronda Homes

(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND 2005, 2006 SUPPLEMENT

9 1/4" FRM'G | 14 RISER : STRAIGHT

STAIR DETAILS

DRAWN BY: | GARAGE:

RELEASE DATE: 03 - 28 - 05

Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158

MAY 02 2008

SHEET:

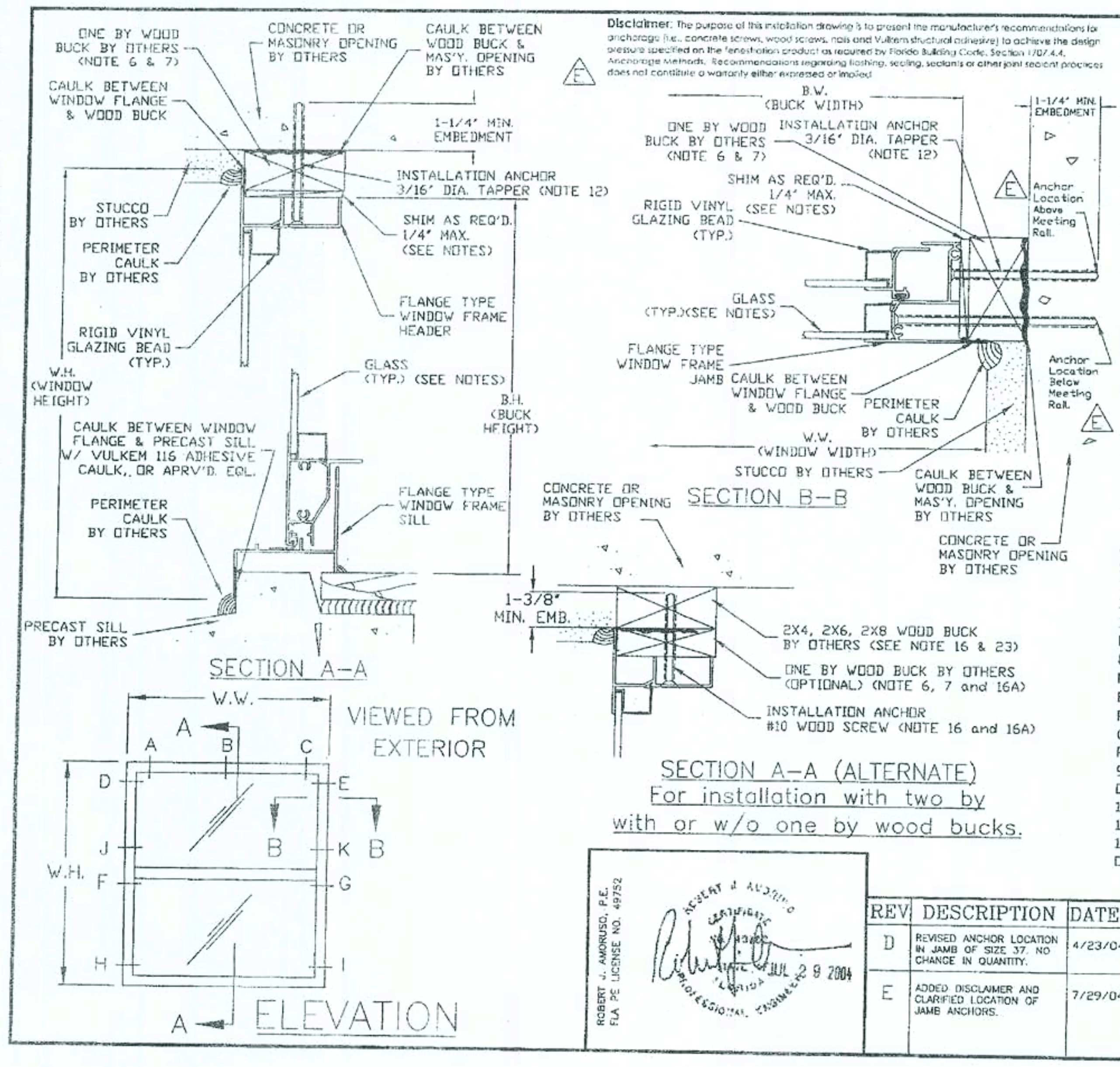
STR

p:\1\houses_05\sunbury\dtls\14r-106_50.str

11.5x10

PLOT DATE: 22 FEB 2008

FLORIDA BUILDING CODE 2004 : RESIDENTIAL



IMPORT/T INFORMATION & GENERAL NOTES

These notce provided to ensure proper installation of Florida Extruders Milestone products anust be followed fully.

GENERAL IMALLATION INSTRUCTIONS

1) SHIM AS Q'D. AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. MAX. ALLOWABLBIM STACK TO BE 1/4".
2) USE SILIOIZED ACRYLIC CAULK BEHIND WINDOW FLANGE AT HEAD & JAMBS. SILL MUST BTTACHED TO THE SUBSTRATE WITH VULKEM 116 ADHESIVE CAULK OR APPROVED BAL. APPLICATION OF VULKEM 116 ADHESIVE CAULK OR APPROVED EQUAL AT FNE SILL MUST COMPLY WITH SEALANT MANUFACTURER'S RECOMMENITONS.
3) USE SILIOIZED ACRYLIC CAULK FOR PERIMETER SEAL AROUND EXTERIOR OF WINDOW FLGE AND TO SEAL HEADS OF INSTALLATION FASTENERS.
4) FLORIDA IRUDERS 1000 SERIES SINGLE HUNG IS SHOWN. THIS PRINT ALSO APPLIES TOE FLORIDA EXTRUDERS 1500 AND 2000 SERIES SINGLE HUNGS.
5) WINDOWAME MATERIAL: ALUMINUM ALLOY 6063.

ANCHOR INSLLATION INSTRUCTIONS

GENERAL:

6) NAIL ATTAMENT OF NON-STRUCTURAL ONE BY BUCK IS 4" FROM EACH CORNER AND 8" ON CTER. USE A HARDENED "T-NAIL" WITH A 0.097" DIAMETER AND 1 3/8" LENGTH (5/8MBEDMENT), A HARDENED "MASONRY NAIL" WITH A 0.148" DIAMETER AND 1 1/2" LGTH (3/4" EMBEDMENT) OR EQUIVALENT. FOR ALTERNATE SECTION A-A/B-B, USED.113" DIAMETER COMMON WIRE NAIL WITH A 3/4" EMBEDMENT OR EQUIVALENTR NAILING NON-STRUCTURAL ONE BY BUCK INTO A TWO BY STRUCTURAUCK.
7) APPLIES TLL NON-STRUCTURAL BUCKS LESS THAN 1 1/2" THICKNESS. NOT INTENDED TOMIT TO NOMINAL ONE BY WOOD BUCK ONLY. BUCKS GREATER THAN 1" NOMIMAL 4" THICK) AND LESS THAN 2" NOMINAL (1 1/2" THICK) WILL REQUIRE NAIL LENGTHIFFICIENT TO MEET EMBEDMENT REQUIREMENTS OF NOTE 6.
8) ALL INSTATION ANCHORS MUST BE MADE OF CORROSION RESISTANT MATERIALS CIAVE A CORROSION RESISTANT COATING APPLIED SUITABLE FOR THE ENVIRONMENND/OR FRAMING MATERIAL. WHERE ANCHORS ARE USED IN PRESSURE-PRERVATIVE TREATED WOOD, THE WOOD SUPPLIER SHALL BE CONSULTED I RECOMMENDATION OF ANCHORS COMPATIBLE WITH THE PRESSURE-PRERVATIVE TREATMENT PROCESS USED.
9) ALL FIELD PLIED HOLES IN THE FRAME (IF REQUIRED) WILL BE 3/16" IN DIAMETER.
10) WOOD SCVS SHALL MEET ANSI B18.6.1 DIMENSIONAL REQUIREMENTS.
11) IF WOODNDS TO SPLIT, PRE-BORE HOLES AS FOLLOWS: #8 WOOD SCREW - 1/8" DIA. PILCHOLE & #10 WOOD SCREW - 9/64" DIA. PILOT HOLE (NATIONAL DESIGN SPECIATION FOR WOOD CONSTRUCTION).

[SEE SHEET 2 FOR CONTINUATION OF NOTES]

REV	DESCRIPTION	DATE	INI
D	REVISED ANCHOR LOCATION IN JAMB OF SIZE 37. NO CHANGE IN QUANTITY.	4/23/04	RJA
E	ADDED DISCLAIMER AND CLARIFIED LOCATION OF JAMB ANCHORS.	7/29/04	RJA

FDRIDA EXTRUDERS INTERNATIONAL, INC.
CERATE OF AUTHORIZATION NO. 9235
2540 JEWETT LANE
SANFORD, FLORIDA
TITI INSTALLATION DETAIL
SGL HUNG FLANGE WINDOWS - SERIES 1000, 1500 & 2000
DRA BY: BB
APPROVED BY: RJA
DAT7/29/04
SCALE: NTS
DWG.: FLEX0016, SHT 1 OF 2

TAPPER LOCATION CHART					
CALL SIZE	BUCK SIZE	LOCATIONS IN HEAD		LOCATIONS IN JAMB	
		30PSF TO 40PSF	41PSF TO 70PSF	30PSF TO 40PSF	41PSF TO 70PSF
12	18 1/8 X 25	B	B	F,G	F,G
13	18 1/8 X 37 3/8	B	B	F,G	F,G
14	18 1/8 X 49 5/8	B	B	F,G	F,G
145	18 1/8 X 55 1/4	B	B	F,G	F,G
15	18 1/8 X 62	B	B	F,G	F,G
16	18 1/8 X 71	B	B	F,G	F,G,H,I
17	18 1/8 X 83	B	B	F,G	F,G,J,K
1H2	25 1/2 X 25	B	B	F,G	F,G
1H3	25 1/2 X 37 3/8	B	B	F,G	F,G
1H4	25 1/2 X 49 5/8	B	B	F,G	F,G,H,I
1H45	25 1/2 X 55 1/4	B	B	F,G	F,G,H,I
1H5	25 1/2 X 62	B	B	F,G	F,G,H,I
1H6	25 1/2 X 71	B	B	F,G	F,G,H,I
1H7	25 1/2 X 83	B	B	F,G,J,K	F,G,J,K
30 1/2 X 26	29 1/2 X 25	B	B	F,G	F,G
30 1/2 X 38 3/8	29 1/2 X 37 3/8	B	B	F,G	F,G
30 1/2 X 50 5/8	29 1/2 X 49 5/8	B	B	F,G	F,G,H,I
30 1/2 X 56 1/4	29 1/2 X 55 1/4	B	B	F,G	F,G,H,I
30 1/2 X 63	29 1/2 X 62	B	B	F,G	F,G,H,I
30 1/2 X 72	29 1/2 X 71	B	B	F,G,H,I	F,G,H,I
30 1/2 X 84	29 1/2 X 83	B	B	F,G,J,K	F,G,J,K
22	36 x 25	B	B	F,G	F,G
23	36 x 37 3/8	B	B	F,G	F,G
24	36 x 49 5/8	B	B	F,G	F,G,H,I
245	36 x 55 1/4	B	B	F,G	F,G,H,I
25	36 x 62	B	B	F,G,H,I	F,G,H,I
26	36 x 71	B	B	F,G,H,I	D,E,F,G,H,I
27	36 x 83	B	B	F,G,J,K	F,G,H,I,J,K
42 x 26	41 x 25	B	B	F,G	F,G
42 x 38 3/8	41 x 37 3/8	B	B	F,G	F,G,H,I
42 x 50 5/8	41 x 49 5/8	B	B	F,G	F,G,H,I
42 x 56 1/4	41 x 55 1/4	B	B	F,G,H,I	F,G,H,I
42 x 63	41 x 62	B	B	F,G,H,I	D,E,F,G,H,I
42 x 72	41 x 71	B	B	F,G,H,I	D,E,F,G,H,I
42 x 84	41 x 83	B	B	F,G,J,K	F,G,H,I,J,K
48 x 26	47 x 25	B	A,C	F,G	F,G
48 x 38 3/8	47 x 37 3/8	B	A,C	F,G	F,G,H,I
48 x 50 5/8	47 x 49 5/8	B	A,C	F,G	F,G,H,I
48 x 56 1/4	47 x 55 1/4	B	A,C	F,G,H,I	F,G,H,I
48 x 63	47 x 62	B	A,C	F,G,H,I	D,E,F,G,H,I
48 x 72	47 x 71	B	A,C	F,G,H,I	D,E,F,G,H,I
48 x 84	47 x 83	B	A,C	F,G,J,K	D,E,F,G,H,I,J,K
32	52 1/8 X 25	B	A,C	F,G	F,G
33	52 1/8 X 37 3/8	B	A,C	F,G	F,G,H,I
34	52 1/8 X 49 5/8	B	A,C	F,G,H,I	F,G,H,I
345	52 1/8 X 55 1/4	B	A,C	F,G,H,I	D,E,F,G,H,I
35	52 1/8 X 62	B	A,C	F,G,H,I	D,E,F,G,H,I
36	52 1/8 X 71	B	A,C	F,G,H,I	D,E,F,G,H,I
* 37	52 1/8 X 83	B	A,C	F,G,J,K	D,E,F,G,H,I,J,K

* 37 SIZE NOT AVAILABLE IN 1000 OR 1500 SERIES.

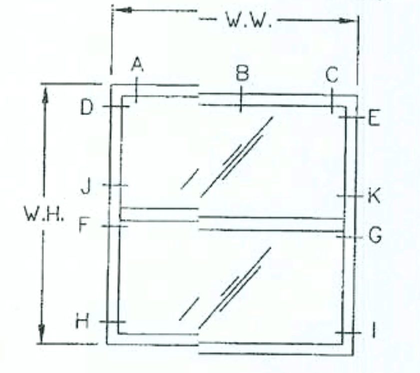
IMPORTANT INFORRMATION & GENERAL NOTES (cont.)

ANCHOR INSTALLATION ON INSTRUCTIONS (cont.)

3/16" DIA. TAPPER CC CONCRETE SCREW (WITH NON-STRUCTURAL ONE BY WOOD BUCK):

12) WHERE WINDOW IS IS INSTALLED IN MASONRY OPENING WITH A NON-STRUCTURAL ONE BY WOOD BUCK (NOTE 7), USE A 3/16" DIA. TAPPER CONCRETE SCREW OF SUFFICIENT LT LTH. TO ACHIEVE MIN. EMBEDMENT OF 1-1/4" INTO MASONRY OR CONCRETE.
13) SEE THIS SHEET FOR OR TAPPER INSTALLATION ANCHOR LOCATION CHART. LETTER DESIGNATIONS ON THE TAPPER LOCATION CHART INDICATE WHERE TAPPER CONCRETE SCRE REWS ARE TO BE INSTALLED WHEN USING THE EXTERIOR ELEVATION AS A KEY.
14) TAPPER (RAWL) CON ONCRETE SCREW MANUFACTURED BY POWERS FASTENING, INC. WILL BE USED. TAPCON (by ELCO TEXTRON INC.) OR TITEN (by SIMPSON STRONG-TIE) C) CAN BE SUBSTITUTED WITH THE FOLLOWING LIMITATIONS FOR THE SINGLE HUNG WINDOW SIZES (1) 18 1/8 x 62 AND (2) 3) 30 1/2 x 84:
a) LIMIT TO 65 PSF, O OR
b) INSTALL ONE ADDIT DITIONAL FASTENER IN EACH JAMB OVER CHART REQUIREMENTS AT LOCATIONS H AND I.
15) ALL REMAINING FACT ACTORY APPLIED INSTALLATION FASTENER HOLES NOT USED FOR TAPPER CONCRETE SCREW INSTALLATION SHOULD BE FILLED WITH #8 WOOD SCREWS WS OF SUFFICIENT LTH. TO PROVIDE MIN. 5/8 IN. EMBEDMENT INTO WOOD BUCK.

VIEWE ED FROM EXT TERIOR (ANCHOR R LOCATIONS)



ELEV ATION

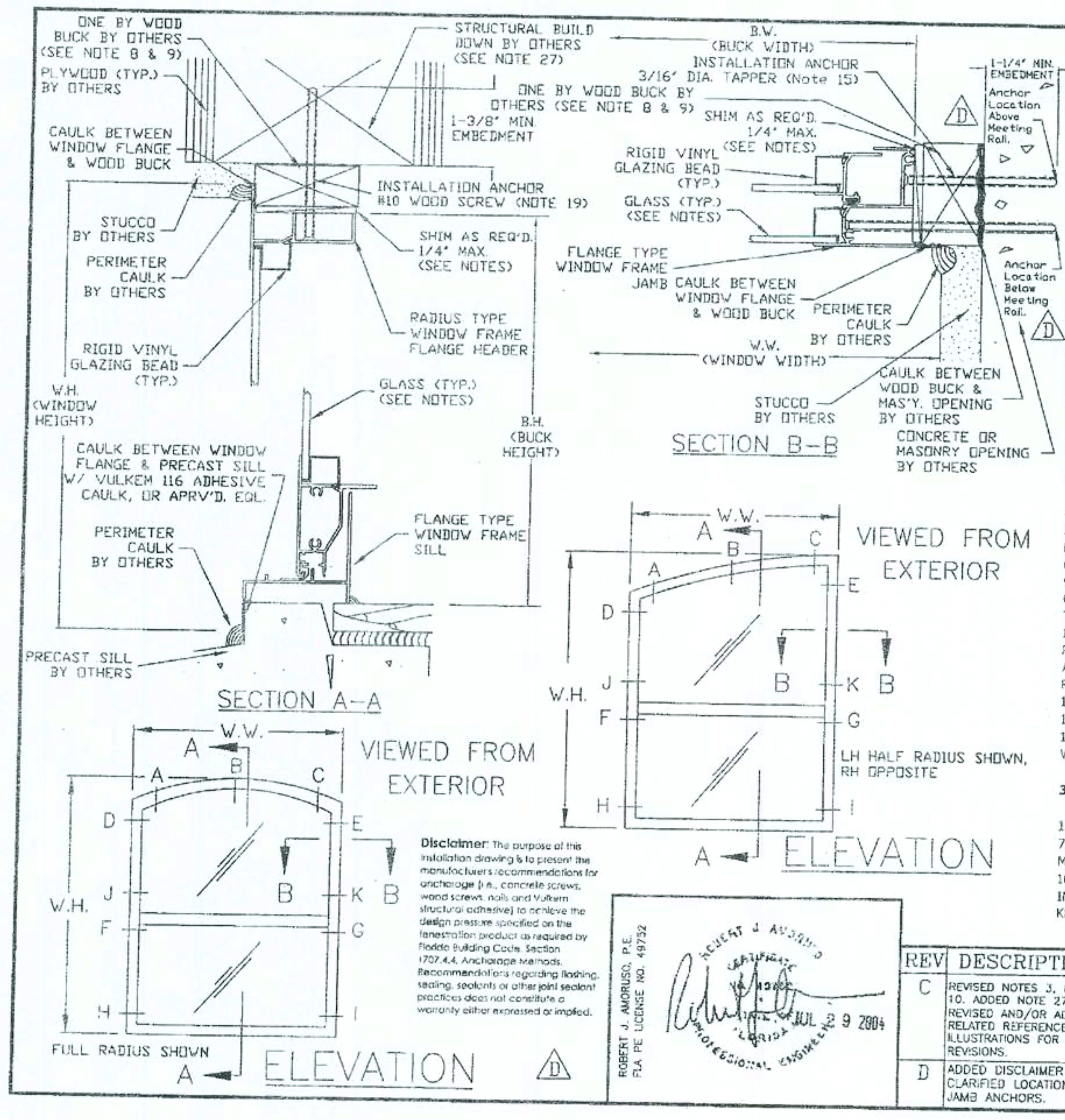
#10 WOOD SCREW (WITH STRUCTURAL TWO BY WOOD BUCK AND OPTIONAL ONE BY WOOD BUCK - SECTION A-A ALTERNATE ILLUSTRATES THIS OPTION, SIMILAR FOR SECTION B-B):

16) WHERE WINDOW IS INSTALLED IN MASONRY OPENING WITH A STRUCTUAL TWO BY WOOD BUCK, USE #10 WOOD SCREWS (ANSI B18.6.1) OF SUFFICIENT LENGTH TO ACHIEVE 1-3/8" MIN. EMBEDMENT INTO THE TWO BY WOOD BUCK.
16A) IF A TWO BY & ONE BY WOOD BUCK ARE USED (SEE SECTION A-A ALTERNATE, SIMILAR FOR SECTION B-B), THEN #10 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1-3/8" MIN. EMBEDMENT INTO THE TWO BY WOOD BUCK WILL BE USED AND THE ONE BY WOOD BUCK WILL BE SECURED TO THE TWO BY WOOD BUCK AS REQUIRED IN NOTE 6 & 7.
17) #10 WOOD SCREWS SHALL BE INSTALLED AT ALL FACTORY APPLIED INSTALLATION FASTENER HOLE LOCATIONS.
18) WOOD SCREWS SHALL NOT BE USED TO FASTEN ASSEMBLY INTO THE END GRAIN OF WOOD.

DESIGN PRESSURE RATING & FBC REQUIREMENTS

19) IF EXACT WINDOW SIZE IS NOT LISTED IN TAPPER ANCHOR CHART FOR NON-STRUCTURAL BUCK INSTALLATION, USE ANCHOR QUANTITY LISTED FOR NEXT LARGER SIZE, FOR THE APPROPRIATE DESIGN PRESSURE REQ'D.
20) INSTALLATIONS DEPICTED IN THESE INSTRUCTIONS ACCEPTABLE FOR DESIGN PRESSURES TO 70 PSF FOR THE WINDOW SIZES SHOWN IN THE CHART. DESIGN PRESSURES (D.P.) SHOWN ARE POSITIVE AND NEGATIVE.
21) GLASS THICKNESS MAY VARY PER THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS.
22) COMPLIES WITH FBC, CHAPTER 17 SECTIONS 1707.4.4.1 FOR ANCHORING REQUIREMENTS, 1707.4.4.2 FOR MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATES AND 1707.4.4.3 FOR WOOD OR APPROVED FRAMING MEMBERS, MARCH 1, 2002.
23) TWO BY WOOD BUCK AND/OR FRAMING AT THE HEAD AND JAMBS TO BE SECURELY FASTENED TO TRANSFER THE LOAD TO THE MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE PER FBC, SECTION 1707.4.4.2 AND THE ENGINEER OF RECORD'S DETAILS.

REV B C D E
FLORIDA EXTRUDERS INTERNATIONAL, INC.
CERTIFICATE OF AUTHORIZATION NO. 9235
2540 JEWETT LANE
SANFORD, FLORIDA
TITLE: INSTALLATION DETAIL
SGL. HUNG FLANGE WINDOWS - SERIES 1000 , 1500 & 2000
DRAWN BY: RJA
APPROVED BY: RJA
DATE: 7/29/04
SCALE: NTS
DWG.: FLEX0016, SHT 2 OF 2



IMPORTANT INFORITION & GENERAL NOTES

These notes are provided to ere proper installation of Florida Extruders Milestone products and must be followed fully.

GENERAL INSTALLATION INSTITIONS

1) SHIM AS REQ'D. AT EACH INLLATION ANCHOR WITH LOAD BEARING SHIM. MAX. ALLOWABLE SHIM STACK TO BE 1/4".
2) USE SILICONIZED ACRYLIC ILK BEHIND WINDOW FLANGE AT HEAD & JAMBS. SILL MUST BE ATTACHED TO THE SUBSTRATE WITH VULKEN6 ADHESIVE CAULK OR APPROVED EQUAL. APPLICATION OF VULKEM 116 ADHESIVE CAULK OR APPROVEQUAL AT FRAME SILL MUST COMPLY WITH SEALANT MANUFACTURER'S RECOMMENDATIONS.
3) USE SILICONIZED ACRYLIC ILK FOR PERIMETER SEAL AROUND EXTERIOR OF WINDOW FLANGE AND TO SEAL HEADS OF INSTALLATION FASTERS.
4) FLORIDA EXTRUDERS 1000 SES SINGLE HUNG IS SHOWN. THIS PRINT ALSO APPLIES TO THE FLORIDA EXTRUDERS 1500 AND 2000 SES SINGLE HUNGS.
5) WINDOW FRAME MATERIAL:JMINUM ALLOY 6063.
6) BUILD DOWN AROUND CURVPORTION OF WINDOW FRAME TO BE ENGINEERED BY OTHERS. BUILD DOWN MUST BE OF SUFFICIENT STREIH TO ADEQUATELY TRANSFER LOAD FROM WINDOW TO THE STRUCTURE PER FBC, SECTION 1707.4.4.
7) WINDOW UNIT CAN BE MULI TO OTHER UNITS USING ALUMINUM TUBE MULLION. SEE MULLION INSTALLATION SHEETS FOR REREMENTS.

ANCHOR INSTALLATION INSTRIONS

GENERAL:

8) NAIL ATTACHMENT OF NON-UCTURAL ONE BY BUCK IS 4" FROM EACH CORNER AND 8" ON CENTER. USE A HARDENED "T-NAIL" WITH A 0.C DIAMETER AND 1 3/8" LENGTH (5/8" EMBEDMENT), A HARDENED "MASONRY NAIL" WITH A 0.148" DIAMETERD 1 1/2" LENGTH (3/4" EMBEDMENT) OR EQUIVALENT FOR THE JAMBS. USE A 0.113" DIAMETER COMMON WIRAIL WITH A 3/4" EMBEDMENT OR EQUIVALENT FOR THE HEAD.
9) APPLIES TO ALL NON-STRUCIAL BUCKS LESS THAN 1 1/2" THICKNESS. NOT INTENDED TO LIMIT TO NOMINAL ONE BY WOOD BUCK ONLY. BUCGREATER THAN 1" NOMIMAL (3/4" THICK) AND LESS THAN 2" NOMINAL (1 1/2" THICK) WILL REQUIRE NAIL LEM SUFFICIENT TO MEET EMBEDMENT REQUIREMENTS OF NOTE 8.
10) ALL INSTALLATION ANCHORUST BE MADE OF CORROSION RESISTANT MATERIALS OR HAVE A CORROSION RESISTANT COATING APPLIED SABLE FOR THE ENVIRONMENT AND/OR FRAMING MATERIAL. WHERE ANCHORS ARE USED IN PRESSURE-PRESERIVE TREATED WOOD, THE WOOD SUPPLIER SHALL BE CONSULTED FOR RECOMMENDATION OF ANCHOROMPATIBLE WITH THE PRESSURE-PRESERVATIVE TREATMENT PROCESS USED.
11) ALL FIELD SUPPLIED HOLES HE FRAME (IF REQUIRED) WILL BE 3/16" IN DIAMETER.
12) WOOD SCREWS SHALL MEETSI B18.6.1 DIMENSIONAL REQUIREMENTS.
13) IF WOOD TENDS TO SPLIT, -BORE HOLES AS FOLLOWS: #8 WOOD SCREW - 1/8" DIA. PILOT HOLE & #10 WOOD SCREW - 9/64" DIA. PILODLE (NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION).

3/16" DIA. TAPPER CONCRETCREW (WITH NON-STRUCTURAL ONE BY WOOD BUCK):

15) WHERE WINDOW IS INSTALLIN MASONRY OPENING WITH A NON-STRUCTURAL ONE BY WOOD BUCK (NOTE 7), USE A 3/16" DIA. TAPPER COIETE SCREW OF SUFFICIENT LTH. TO ACHIEVE MIN. EMBEDMENT OF 1-1/4" INTO MASONRY OR CONCRETE.
16) SEE SHEET 2 FOR INSTALLATI ANCHOR LOCATION CHART. LETTER DESIGNATIONS ON THE LOCATION CHART INDICATE WHERE TAPPER CONCE SCREWS ARE TO BE INSTALLED WHEN USING THE EXTERIOR ELEVATION AS A KEY.

[SEE SHEET 2 FOR CONTINUATION OF NOTES]

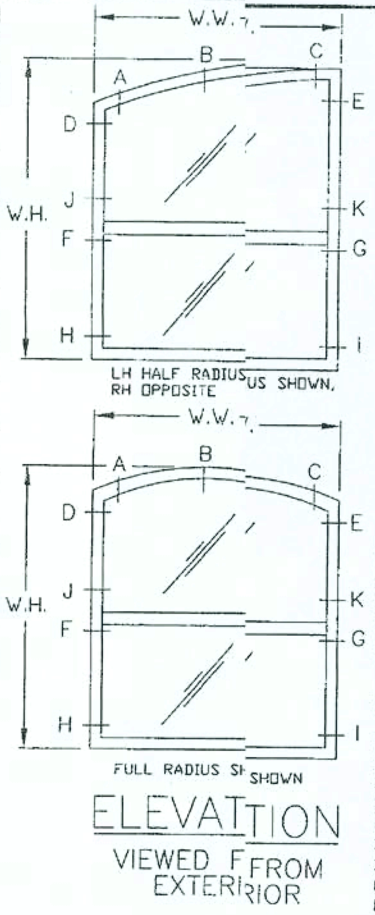
REV	DESCRIPTION	DATE	INI
C	REVISED NOTES 3, 8, 9 & 10. ADDED NOTE 27. REVISED AND/OR ADDED RELATED REFERENCES AND ILLUSTRATIONS FOR NOTE REVISIONS.	12/19/03	RJA
D	ADDED DISCLAIMER AND CLARIFIED LOCATION OF JAMB ANCHORS.	7/29/04	RJA

FDRIDA EXTRUDERS INTERNATIONAL, INC.
CERATE OF AUTHORIZATION NO. 9235
2540 JEWETT LANE
SANFORD, FLORIDA
TITI INSTALLATION DETAIL SINGLE HUNG RADIUS HEAD
FLAE W/FRAME BUILD DOWN - SERIES 1000 , 1500 & 2000
DRA BY: JBH
APPROVED BY: RJA
DAT/29/04
SCALE: NTS
DWG.: FLEX0040 SHEET 1 OF 2

ANCHOR LOCATION CHART (SEE NOTES BELOW)					
CALL SIZE	BUCK SIZE	LOCATIONS IN HEAD (see note 1 below)		LOCATIONS IN JAMB (see notes 2 & 3 below)	
		30PSF TO 40PSF	41PSF TO 70PSF	30PSF TO 40PSF	41PSF TO 70PSF
12	18 1/8 X 27 5/16	A,C	A,C	F,G	F,G
13	18 1/8 X 39 11/16	A,C	A,C	F,G	F,G
14	18 1/8 X 51 15/16	A,C	A,C	F,G	F,G
145	18 1/8 X 57 19/32	A,C	A,C	F,C	F,C (a)
15	18 1/8 X 64 5/16	A,C	A,C	F,G	F,G (a)
16	18 1/8 X 73 5/16	A,C	A,C	F,G (a)	F,G,H,I
1H2	25 1/2 X 28 9/16	A,C	A,C	F,G	F,G
1H3	25 1/2 X 40 15/16	A,C	A,C	F,G	F,G
1H4	25 1/2 X 53 3/16	A,C	A,C	F,G	F,G,H,I
1H45	25 1/2 X 58 13/16	A,C	A,C	F,G	F,G,H,I
1H5	25 1/2 X 65 9/16	A,C	A,C	F,G	F,G,H,I
1H6	25 1/2 X 74 9/16	A,C	A,C	F,G	F,G,H,I
30 1/2 X 30 7/32	29 1/2 X 29 7/32	A,C	A,C	F,G	F,G
30 1/2 X 42 19/32	29 1/2 X 41 19/32	A,C	A,C	F,G	F,G
30 1/2 X 54 27/32	29 1/2 X 53 27/32	A,C	A,C	F,G	F,G,H,I
30 1/2 X 60 15/32	29 1/2 X 59 15/32	A,C	A,C	F,G	F,G,H,I
30 1/2 X 67 7/32	29 1/2 X 66 7/32	A,C	A,C	F,G (a)	F,G,H,I
30 1/2 X 76 7/32	29 1/2 X 75 7/32	A,C	A,C	F,G,H,I	F,G,H,I (b)
22	36 x 30 5/16	A,B,C	A,B,C	F,G	F,G
23	36 x 42 11/16	A,B,C	A,B,C	F,G	F,G (a)
24	36 x 54 15/16	A,B,C	A,B,C	F,G	F,G,H,I
245	36 x 60 9/16	A,B,C	A,B,C	F,G (a)	F,G,H,I
25	36 x 67 5/16	A,B,C	A,B,C	F,G,H,I	F,G,H,I (b)
26	36 x 76 5/16	A,B,C	A,B,C	F,G,H,I	D,E,F,G,H,I
42 x 32 5/32	41 x 31 5/32	A,B,C	A,B,C	F,G	F,G
42 x 44 17/32	41 x 43 17/32	A,B,C	A,B,C	F,G	F,G,H,I
42 x 56 25/32	41 x 55 25/32	A,B,C	A,B,C	F,G	F,G,H,I
42 x 62 3/8	41 x 61 3/8	A,B,C	A,B,C	F,G,H,I	F,G,H,I
42 x 69 5/32	41 x 68 5/32	A,B,C	A,B,C	F,G,H,I	D,E,F,G,H,I
42 x 78 5/32	41 x 77 5/32	A,B,C	A,B,C	F,G,H,I	D,E,F,G,H,I
48 x 33 5/32	47 x 32 5/32	A,B,C	A,B,C	F,G	F,G
48 x 45 17/32	47 x 44 17/32	A,B,C	A,B,C	F,G	F,G,H,I
48 x 57 25/32	47 x 56 25/32	A,B,C	A,B,C	F,G (a)	F,G,H,I
48 x 63 3/8	47 x 62 3/8	A,B,C	A,B,C	F,G,H,I	F,G,H,I (b)
48 x 70 5/32	47 x 69 5/32	A,B,C	A,B,C	F,G,H,I	D,E,F,G,H,I
48 x 79 5/32	47 x 78 5/32	A,B,C	A,B,C	F,G,H,I	D,E,F,G,H,I (c)
32	52 1/8 X 33	A,B,C	A,B,C	F,G	F,G
33	52 1/8 X 45 3/8	A,B,C	A,B,C	F,G	F,G,H,I
34	52 1/8 X 57 5/8	A,B,C	A,B,C	F,G,H,I	F,G,H,I
345	52 1/8 X 63 1/4	A,B,C	A,B,C	F,G,H,I	D,E,F,G,H,I
35	52 1/8 X 70	A,B,C	A,B,C	F,G,H,I	D,E,F,G,H,I
36	52 1/8 X 79	A,B,C	A,B,C	F,G,H,I	D,E,F,G,H,I (c)

ANCHOR LOCATION CHART NOTES:

1. Locations in HEAD for #10 Wood Screws into structural "two by" wood buck or "one by" wood buck/structural build–down.
2. Locations in JAMB for 3/16" TAPPER Concrete Screws into non–structural buck & concrete or masonry.
3. Locations in JAMB for #10 Wood Screws into structural "two by" buck. Where indicated by (a), (b) or (c) above, additional #10 Wood Screws shall be added at the following locations.
   (a) One additional anchor required in each jamb at locations "H" and "I".
   (b) One additional anchor required in each jamb at locations "D" and "E".
   (c) One additional anchor required in each jamb at locations "J" and "K".
4. Dimensions given are for half radius head units, full radius will be shorter.



ELEVATION
VIEWED FROM EXTERIOR

IMPORTANT INFORMATION & GENERAL NOTES (cont.)

ANCHOR INSTALLATION INSTRUCTIONS (cont.)

3/16" DIA. TAPPER CONCRETE SCREW (WITH NON-STRUCTURAL ONE BY WOOD BUCK) (cont.):

17) TAPPER (RAWL) CONCRETE SCREW MANUFACTURED BY POWERS FASTENING, INC. WILL BE USED. TAPCON (by ELCO TEXTRON INC.) OR TITEN (by SIMPSON STRONG-TIE) CAN BE SUBSTITUTED WITH THE FOLLOWING LIMITATIONS FOR THE SINGLE HUNG WINDOW CALL SIZE 15:
a) LIMIT TO 65 PSF, OR
b) INSTALL ONE ADDITIONAL FASTENER IN EACH JAMB OVER CHART REQUIREMENTS AT LOCATIONS H AND I.
18) ALL REMAINING FACTORY APPLIED INSTALLATION FASTENER HOLES NOT USED FOR TAPPER CONCRETE SCREW INSTALLATION SHOULD BE FILLED WITH #8 WOOD SCREWS OF SUFFICIENT LTH. TO PROVIDE MIN. 5/8 IN. EMBEDMENT INTO WOOD BUCK.

#10 WOOD SCREW (WITH STRUCTURAL TWO BY WOOD BUCK OR ONE BY WOOD BUCK/STRUCTURAL BUILD-DOWN):

19) WHERE WINDOW IS INSTALLED IN MASONRY OPENING WITH A STRUCTUAL TWO BY WOOD BUCK OR ONE BY WOOD BUCK/STRUCTURAL BUILD-DOWN, USE #10 WOOD SCREWS (ANSI B18.6.1) OF SUFFICIENT LENGTH TO ACHIEVE 1-3/8" MIN. EMBEDMENT INTO THE TWO BY WOOD BUCK OR THE STRUCTURAL BUILD-DOWN FRAMING COMPONENT.
20) SEE SHEET 2 FOR INSTALLATION ANCHOR LOCATION CHART. LETTER DESIGNATIONS ON THE LOCATION CHART INDICATE WHERE #10 WOOD SCREWS ARE TO BE INSTALLED WHEN USING THE EXTERIOR ELEVATION AS A KEY. ALSO SEE "ANCHOR LOCATION CHART NOTES", NOTE 3, FOR WINDOW SIZES REQUIRING ADDITIONAL ANCHORS AND LOCATIONS.
21) #10 WOOD SCREWS SHALL NOT BE USED TO FASTEN ASSEMBLY INTO THE END GRAIN OF WOOD.
22) ALL REMAINING FACTORY APPLIED INSTALLATION FASTENER HOLES NOT USED FOR #10 WOOD SCREW INSTALLATION SHOULD BE FILLED WITH #8 WOOD SCREWS OF SUFFICIENT LTH. TO PROVIDE MIN. 5/8 IN. EMBEDMENT INTO WOOD BUCK.

DESIGN PRESSURE RATING & FBC REQUIREMENTS

23) IF EXACT WINDOW SIZE IS NOT LISTED IN ANCHOR LOCATION CHART, USE ANCHOR QUANTITY LISTED FOR NEXT LARGER SIZE, FOR THE APPROPRIATE DESIGN PRESSURE REQ'D.
24) INSTALLATIONS DEPICTED IN THESE INSTRUCTIONS ACCEPTABLE FOR DESIGN PRESSURES TO 70 PSF FOR THE WINDOW SIZES SHOWN IN THE CHART. DESIGN PRESSURES (D.P.) SHOWN ARE POSITIVE AND NEGATIVE.
25) GLASS THICKNESS MAY VARY PER THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS.
26) COMPLIES WITH CHAPTER 17 SECTIONS 1707.4.4.1 FOR ANCHORING REQUIREMENTS, 1707.4.4.2 FOR MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATES AND 1707.4.4.3 FOR WOOD OR APPROVED FRAMING MEMBERS, MARCH 1, 2002.
27) STRUCTURAL BUILD-DOWN AT THE HEAD TO BE DESIGN TO TRANSFER THE LOAD TO THE MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE PER FBC, SECTION 1707.4.4.2 OR TO THE WOOD OR APPROVED FRAMING MEMBERS PER FBC, SECTION 1707.4.4.3AND THE ENGINEER OF RECORD'S DETAILS.

REV B C D
FLORIDA EXTRUDERS INTERNATIONAL, INC.
CERTIFICATE OF AUTHORIZATION NO. 9235
2540 JEWETT LANE
SANFORD, FLORIDA
TITLE: INSTALLATION DETAIL SINGLE HUNG RADIUS HEAD
FLANGE W/FRAME BUILD DOWN - SERIES 1000 , 1500 & 2000
DRAWN BY: RJA
APPROVED BY: RJA
DATE: 7/29/04
SCALE: NTS
DWG.: FLEX0040 SHEET 2 OF 2

REVISIONS :

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA EXTRUDERS
WINDOWS IN BLOCK
RELEASE DATE:

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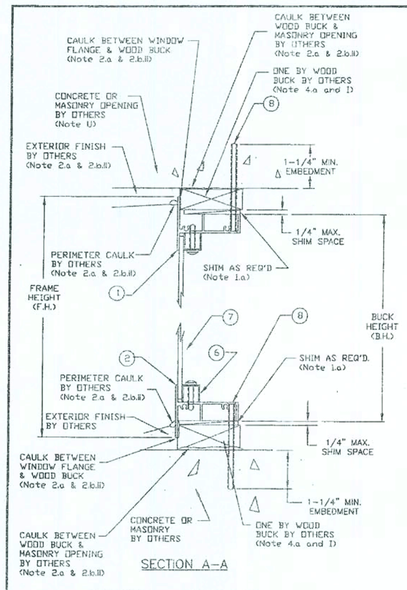
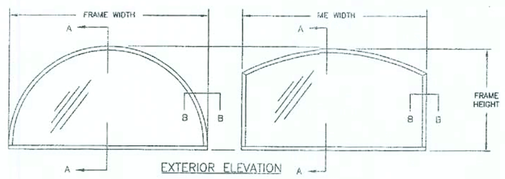
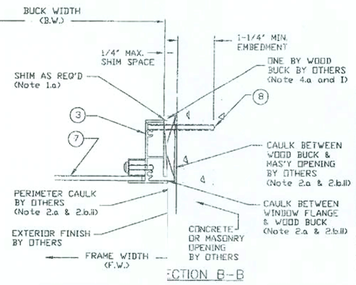
31 MAR 2006 13:32:09

SHEET:
1 of 3







GENERAL NOTES

(1 to 15) See General Notes Drawing FLEX20100, Sheet 1 & 2.

(A) Milestone Series 1000 Designer Fixed Aluminum Window is shown. Also applicable to Series 1750 and 2000 Designer Fixed Aluminum Windows.

(B) Drawing applicable to Non-Impact Resistant glazed windows.

(C) Production Glazing may differ from that tested as allowed by ANSI/AAMA/NWWDA 101/I.S. 2 - 97 or 101/I.S. 2 NAFS and applicable Building Code. See Note 12 and 13 on Drawing FLEX 20100 for further details.

(D) For Fastener Location & Quantities see Sheet 2 of this drawing. See Note (H) regarding deviations.

(E) Concrete screw edge distance measured from edge of concrete/masonry/block to centerline of concrete screw must meet or exceed 2 1/4". Minimum size and embedment per Parts List. See Note (H) regarding deviations.

(F) Wood or tapping screw edge distance measured from edge of wood to centerline of wood or tapping screw must meet or exceed 1". Minimum size and embedment per Parts List. See Note (H) regarding deviations.

(G) All field supplied holes in the frame (if required) will be 3/16" in diameter for 3/16" concrete screws and #10 wood screws.

(H) Any deviation less than the minimum requirements stated must be approved by the manufacturer or engineered by "other" Design Professional in accordance with the applicable Building Code and Product Approval.

PARTS LIST

1 Head - Flange Frame
2 Sill - Flange Frame
3 Jamb - Flange Frame
4 Not Used
5 Not Used
6 Glazing Bead - Rigid Vinyl
7 Glazing - See Note (B) and (C)
8 3/16" Dia. Flat Head Concrete sw with minimum working load in shea 255 lbs at 1 1/4" embedment. See Note (J) this drawing and Note 7 on Drawing FLEX20.
9 #10 Wood or Tapping Screw wa minimum embedment of 1-3/8" into "Structl Two By Buck or Framing". See Note (L) this drawing and Note 8 on Drawing FLEX20.

Florida Extruders Int'l, Inc.
2540 Jewett Lane - Sanford, FL 32771
407-323-3300 - 407-322-3507 (fax)
www.floridaextruders.com
Florida COA No. 9335

TITLE: Milestone Series 1000, 1750 and 2000 Non-Impact Resistant Aluminum Flange Frame Designer Fixed Window Installation Drawing for Masonry Substrate & Concrete Substrate

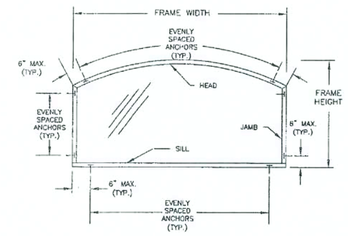
REVISIONS			
No.	Date	By	Description
0	12/27/05	RJA	Supersedes FLEX0035

Date: 12/27/05
Scale: NTS
Drawn By: RJA
Checked By: JH

Robert J. Amoruso, P.E.
FL License No. 49752

ROBERT JAMES AMORUSO, JR. STATE OF FLORIDA PROFESSIONAL ENGINEER No. 49752 12/27/05

Drawing No. FLEX28110
Sheet 1 of 2



FASTENER SPACING ILLUSTRATION
EYEBROW ARCH DESIGNER WINDOW SHOWN AS EXAMPLE

EXAMPLE:

HEAD (CURVED PORTION) SECURED TO CONCRETE HEADER, JAMBS OR SILL SECURED TO CMU AND CAST-SILL RESPECTIVELY WITH ONE BY BUCK

USE 3/16" DIA. CONCRETE SCREWS AT 24" O.C. SPACING BETWEEN ANCHORS AND SPACED 6" MAXIMUM FROM CORNERS.

– or –

HEAD (CURVED PORTION), JAMBS OR SILL SECURED TO STRUCTURAL TWO BY BUCK (ATTACHED TO CONCRETE HEADER, JAMBS OR SILL)

USE #10 WOOD SCREWS AT 12" O.C. SPACING BETWEEN FASTENERS AND SPACED 6" MAXIMUM FROM CORNERS. (NOTE: 12" SPACING FOR EXAMPLE EYEBROW APPLICATION. OTHER APPLICATIONS MAY REQUIRE 10" SPACING PER NOTE (P))

FASTENER INSTALLATION INSTRUCTIONS - FLEX28110

3/16" DIA. CONCRETE SCREW WITH NON-STRUCTURAL ONE BY WOOD BUCK AND CONCRETE BUILD-DOWN:

(I) Nail attachment of non-structural one by buck per Note 4.a.ii.2 Drawing FLEX20100.
(J) Where window is installed in an opening with a non-structural one by wood buck for the head, sill and jambs, use a 3/16" diameter concrete screw of sufficient length to achieve minimum embedment of 1-1/4" into masonry or concrete. See "Parts List" on Sheet 1 of this drawing for concrete screw size, embedment and load requirements. See FLEX20100, Note 7 for additional concrete screw requirements.
(K) Fastener spacing shall be per Note tables (O), (Q) and (R) below.

#10 WOOD SCREW WITH STRUCTURAL TWO BY WOOD BUCK AND CONCRETE BUILD-DOWN. USED WHEN TWO BY BUCK EMPLOYED IN LIEU OF ONE BY BUCK (THIS CONFIGURATION NOT SHOWN):

(L) Where window is installed in an opening with a structural two by wood buck for the head, sill and jambs, use #10 wood screws of sufficient length to achieve 1-3/8" min. embedment into the two by wood buck. See "Parts List" on Sheet 1 of this drawing for wood screw size and embedment. See FLEX20100, Note 8 for additional wood screw requirements.
(M) Wood screws shall not be used to fasten assembly into the end grain of wood.
(N) Fastener spacing shall be per Note tables (P), (Q) and (R) below.

FASTENER SPACING (See Elevation View on this Sheet):

(O) Concrete screw spacing shall be as follows:
- 6" maximum from each corner of head, sill or jambs, and
- evenly spaced between corner anchors but not exceeding 24" o.c. spacing in head, sill or jambs.

(P) #10 wood screw spacing shall be as follows:
- 6" maximum from each corner of head, sill or jambs, and
- evenly spaced between corner anchors but not exceeding 12" o.c. spacing in head, sill or jambs for the following configurations:
  - o eyebrow
  - o half-circle arch
  - o half-eyebrow
  - o octagon
  - o fan
  - o pentoid
  - o full-circle
  - o half-circle
  - o triangle
  - o trapezoid
  - o oval
- evenly spaced between corner anchors but not exceeding 10" o.c. spacing in head, sill or jambs for the following configurations:
  - o quarter-circle
  - o quarter-circle arch
  - o half-fan

(Q) Spacing in Note (O) and (P) above are based on the use of either a concrete screw or #10 wood screw as required for securing the window frame into the substrate as follows (see illustration this sheet):
- Concrete screw into concrete or masonry using a non-structural One By Wood Buck.
- #10 wood screw into a Two By Wood Buck structurally attached to concrete or masonry substrate.

(R) If configuration requires combination of concrete screw and #10 wood screw in either a head, sill or jamb, the lower of the maximum spacings as above shall be used.

DESIGN PRESSURE RATING & FBC CODE COMPLIANCE

(S) Installations depicted in these instructions acceptable for design pressures to 70 PSF. Design Pressures (D.P.) are positive and negative. Overall window assembly design pressure may be less than that shown in the fastener quantity table and shall be determined in accordance with Note 13 of FLEX20100.
(T) Production Glazing may differ from that tested as allowed by ANSI/AAMA/NWWDA 101/I.S. 2 - 97 or 101/I.S. 2 NAFS and applicable Building Code. See Note 12 and 13 on Drawing FLEX 20100 for further details.
(U) Concrete Header at head and/or the two by wood buck and/or framing at the head, sill and jambs to be securely fastened to transfer the load to the masonry, concrete or other structural substrate per the FBC and the engineer of record's details as applicable.
(V) See FLEX20100, Notes 10 to 15 for additional FBC Code Compliance.

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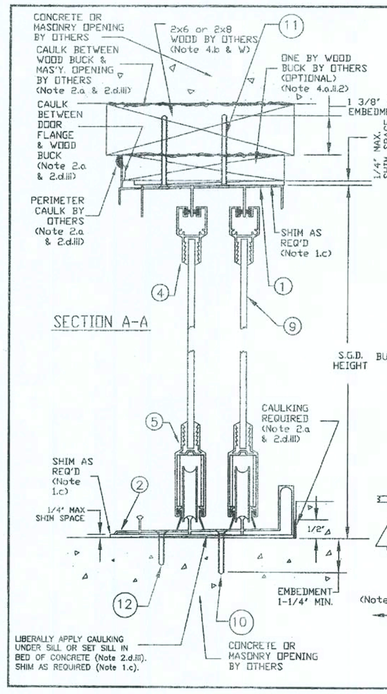
TITLE: Milestone Series 1000, 1750 and 2000 Non-Impact Resistant Aluminum Flange Frame Designer Fixed Window Installation Drawing for Masonry Substrate & Concrete Substrate

REVISIONS			
No.	Date	By	Description
0	12/27/05	RJA	Supersedes FLEX0035

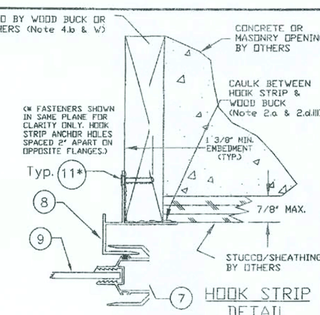
Date: 12/27/05
Scale: NTS
Drawn By: RJA
Checked By: JH

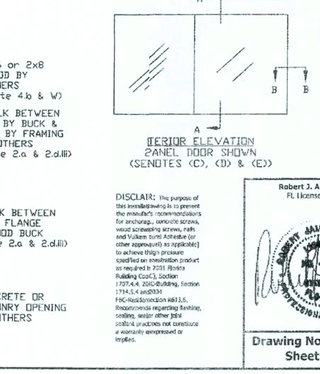
Drawing No. FLEX28110
Sheet 2 of 2



PARTS LIST

1 Head - Flange Frame
2 Sill - Flange Frame
3 Jamb - Flange Frame
4 Head - Panel
5 Sill - Panel
6 Lock Stile - Panel
7 Interlock - Panel
8 Hook Strip
9 Glazing - See Note (B) and (V)
10 3/16" Dia. Flat Head Concrete Screw with minimum working load in shear of 255 lbs at 1 1/4" embedment. See Note (K) on this drawing and Note 7 on Drawing FLEX20100.
11 #10 Wood or Tapping Screw with a minimum embedment of 1-3/8" into two by framing. See Note (P) on this drawing and Note 8 on Drawing FLEX20100.
12 #10 Wood or Tapping Screw with Plastic Inserts (Note 8.) on FLEX20100) at a minimum embedment of 1" into the concrete sill. See Note (Q) on this drawing and Note 8 on Drawing FLEX20100.
13 #10 Wood or Tapping Screw with a minimum embedment of 7/8" into the "One By Wood Buck". See Note (R) on this drawing and Note 8 on Drawing FLEX20100.





DISCLAIR: The purpose of this installation drawing is to present the manufacturer's recommendations for anchorage, concrete screws, wood screws/nails and Vulkem Sunil Adhesive (or other approved) as applicable to achieve design pressure specified on installation product as required by 2001 Florida Building Code(FBC), Section 1709.4.4 2001Building, Section 1714.3.4 and2004 FBC-Residential Section R613.6. Recommendations regarding flashing, sealing, sealants or other joint sealant practices does not constitute a warranty either expressed or implied.

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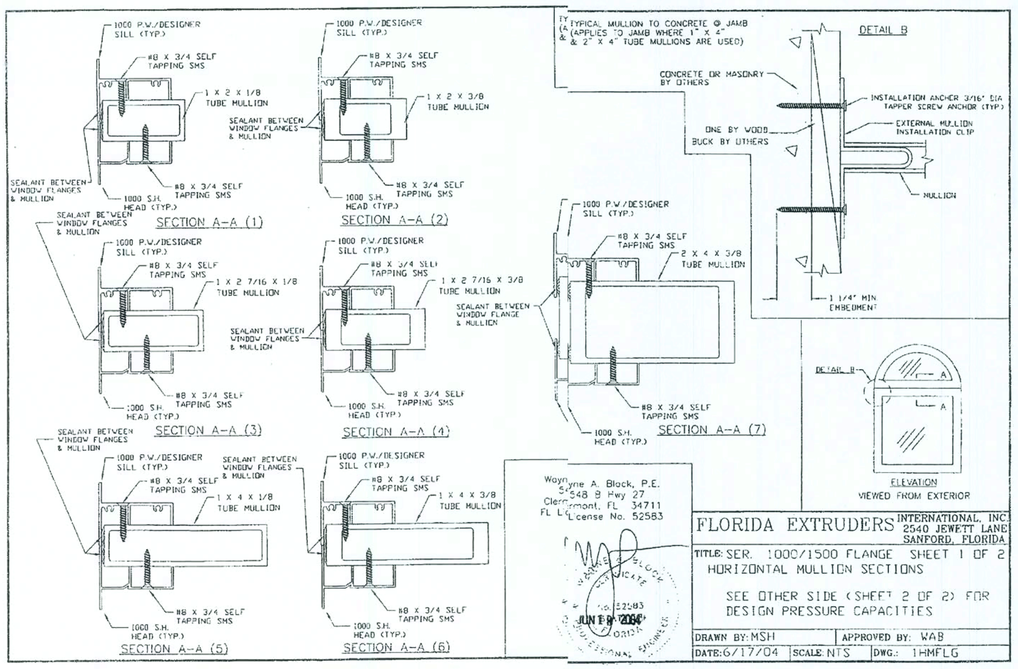
ROBERT JAMES AMORUSO, JR. STATE OF FLORIDA PROFESSIONAL ENGINEER No. 49752 12/27/05

Drawing No. FLEX24112
Sheet 1 of 2



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FLORIDA EXTRUDERS INTERNATIONAL, INC.
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SANFORD, FLORIDA

TITLE: SER. 1000/1500 FLANGE HORIZONTAL MULLION SECTIONS — SHEET 1 OF 2

SEE OTHER SIDE (SHEET 2 OF 2) FOR DESIGN PRESSURE CAPACITIES

DRAWN BY: MSH	APPROVED BY: WAB
DATE: 6/17/04 SCALE: NTS	DWG.: 1HMFLG

REVISIONS :

Maronda Homes
4005 MARONDA WAY SANFORD, FLORIDA (407) 321-0064

FLORIDA EXTRUDERS
WINDOWS IN BLOCK
RELEASE DATE:

SHEET: 2 of 3

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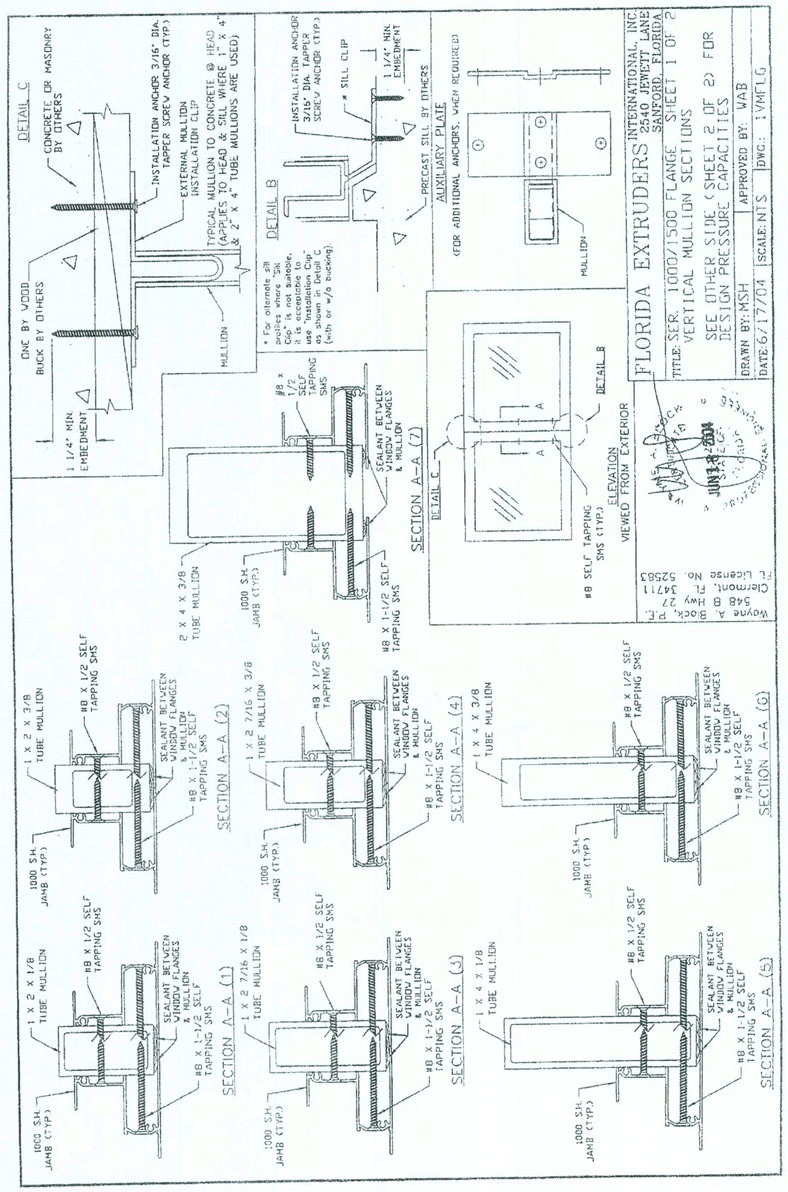

General Notes Drawing for Milestone Series 1000, 1500, 2000 and 3000 Non-Impact Resistant Aluminum Window and Patio Sliding Glass Door Installation Details

These notes are provided to ensure proper installation of Florida Extruders Milestone Non-Impact Resistant Aluminum Fenestration Products and must be followed fully. This General Notes drawing shall be used in tandem with the product specific installation drawing.

A) General Assembly Installation Instructions

1) SHIMMING:

a. FLANGE FRAME WINDOWS - Shim as required at each installation fastener with load bearing shim. The maximum allowable shim stack to be 1/4".

b. FIN FRAME WINDOWS - Shim as required at each installation fastener with load bearing shim. The maximum allowable shim stack to be 1/4". Apply a bead of Vulkem 116 adhesive sealant or approved equal at the fastener location prior to inserting the shim to adhere the shim to the substrate and/or window frame. Full bearing between the shim, substrate and window frame are required.
   i. In the case where the nailing option is employed with finned windows, shims can be limited to the location spacing where wood screws are required. It is not imperative that the shim be coincident with the nail.

c. SLIDING GLASS DOORS - Shim as required at each installation fastener with load bearing shim. The maximum allowable shim stack to be 1/4". Load bearing shim at sill must be pressure treated wood or plastic and must be completely encapsulated in sealant or set in wet concrete.

2) SEALING BETWEEN FENESTRATION PRODUCT AND SUBSTRATE & SSG SEAM SEALANT (See Disclaimer Statement above)

a. GENERAL - SEALANT TYPE (not applicable when a specific brand or type is required)
   i. Sealant type shall be chosen based on the sealant manufacturer's recommendation as it relates to materials to be sealed, environmental conditions and intended use.

b. WINDOWS - FLANGE FRAME
   i. Adhesive Seal - REQUIRED
      1. Use Vulkem 116 adhesive sealant or approved equal between window's integral mounting fin and pre-cast concrete sill (or other sill construction) along full length of sill.
      2. Application of Vulkem 116 adhesive sealant or approved equal must comply with sealant manufacturer's recommendations.
   ii. Seal'ant - RECOMMENDED (see Disclaimer)
      1. Use sealant behind window flange at head and jambs.
      2. Use sealant for perimeter seal around exterior of flange window mounting fin and to seal heads of installation fasteners.

c. WINDOWS - FIN FRAME
   i. Adhesive Seal - NOT REQUIRED
   ii. Sealant - RECOMMENDED (see Disclaimer)
      1. Use sealant behind window flange at head, sill and jambs.
      2. Use sealant for perimeter seal around exterior of flange window mounting fin and to seal heads of installation fasteners.

d. SLIDING GLASS DOORS
   i. Adhesive Seal - NOT REQUIRED
   ii. Mechanically Fastened Corners - REQUIRED
      1. Sliding Glass Doors received in "Knocked-Down" condition shall have jamb and sill corners sealed with a small joint seam sealant.
   iii. Sealant - RECOMMENDED (see Disclaimer)
      1. Use sealant behind door flange at head & jambs and behind hook strip.
      2. Liberally apply sealant under sill or set sills bed of wet concrete. Seal between back corner of sill riser and concrete. Seal all fastener holes prior to installing fastener and around head after installation.
      3. Use sealant for perimeter seal around exterior of door and between hook strip & buck for pocket doors and to seal heads of installation fasteners.

3) MATERIALS:

a. Window and sliding glass door frame material is Aluminum Alloy 6063 T6.
b. Concrete Screws shall meet the minimum requirements of Note 7.
c. Wood Screws shall meet the requirements of Note 8.
d. Tapping (i.e., Sheet Metal) Screws when used in lieu of Wood Screws shall meet the requirements of Note 8.
e. Nails shall meet the requirements of Note 9.
f. Corrosive Resistance Coatings for installation fasteners shall meet the requirements of Note 5.
g. Concrete block or concrete masonry units (CMU) shall meet the requirements of ASTM C90.
h. Concrete shall meet the minimum requirements of the Florida Building Code (minimum compressive strength of 2500 psi).

4) BUCKING:

a. One by (1x) wood bucking:
   i. Applies to all non-structural bucks less than 1 1/2" thickness. Not intended to limit to nominal one by wood buck only.
   ii. One by wood bucking shall be secured to the substrate (masonry, concrete or structural wood bucking or framing using fasteners suitable for the application.
      1. If the product specific installation drawing does prescribe fastening requirements for the bucking, they shall be followed.
      2. If the product specific installation drawing does not prescribe fastening requirements for the bucking, fastening must only be sufficient to maintain position of the bucking during window installation.
         a. Installer, builder or design professional of record may specify method to secure one by wood bucking to substrate to facilitate window installation.

b. Two by (2x) wood bucking or framing:
   i. Applies to all structural wood bucks and/or framing at the head, jamb or sill equal to and greater than 1 1/2" thickness.
   ii. They shall be securely fastened to transfer the load to the masonry, concrete or other structural substrate per 2001 FBC, Section 1707.4.4, 2004 FBC Building, Section 1717.5.4 and 2004 FBC-Residential, Section R613.6 and/or the engineer of record's details as applicable.

B) General Fastener Installation Instructions

5) All installation fasteners must be made of corrosion resistant materials or have a corrosion resistant coating applied suitable for the environment and/or framing material. Where fasteners are used in pressure-preservative treated wood, the wood supplier shall be consulted for recommendation of fasteners compatible with the pressure-preservative treatment process used.

6) All field supplied holes in the frame (if required) will be as follows.
a. 5/32" diameter for all #8 wood or tapping screws.
b. 3/16" in diameter for all #10 wood or tapping screws and 3/16" diameter for concrete screws.
c. No. 29 size drill bit for 0.131" shank diameter nails.
d. No. 33 size drill bit for 0.113" shank diameter nails.

7) Concrete Screws (For attachment to masonry or concrete substrate.)

a. Shall be "Flat" head unless otherwise indicated.
b. Shall have a minimum nominal diameter of 3/16" unless otherwise noted.
c. Shall have a minimum embedment of 1 ¼" into the concrete, masonry or concrete block or masonry unit (CMU) receiving the point unless otherwise noted.
d. Shall have an allowable working load in shear as noted on the "Parts List" on the product specific installation drawing.
   i. Working load is defined as the ultimate load determined by test divided by 4 as determined and published by the concrete screw's manufacturer.
   ii. If the allowable shear load exceeds the above minimum, required number of fasteners shown on the installation drawings CANNOT be decreased.
   iii. If the allowable shear load is less than the above minimum, additional site engineering analysis meeting the building code and acceptable to the Authority Having Jurisdiction (AHJ) WILL BE required.
e. Concrete screws shall be of sufficient length so that the minimum embedment into the receiving substrate (member receiving the point) is met.
f. Minimum Edge Distance of concrete screw fasteners shall be 2 ¼" from the edge of the substrate for a 3/16" diameter concrete screw.

DISCLAIMER

The purpose of this installation drawing is to present the manufacturer's recommendations for anchorage [i.e., concrete screws, wood screws, tapping screws, nails and Vulkem Structural Adhesive (or other approved equal)] to achieve the design pressure specified on the fenestration product as required by the 2001 Florida Building Code (FBC), Section 1707.4.4, 2004 FBC-Building, Section 1714.5.4 and the 2004 FBC-Residential, Section R613.6. Recommendations regarding flashing, sealing, sealants or other joint sealant practices does not constitute a warranty either expressed or implied.

NOTE ON PE SEALING

Original drawings with two sheets (pages) are reproduced on one sheet front and back. When reproduced this way, they are sealed on the first (front) sheet only. In response to Robert Amoruso's inquiry to the Florida Board of Professional Engineers, the FBPE at their meeting on June 20, 2002 responded that in such circumstances, it is acceptable for the sealing PE to only sign, date and seal the front sheet of the drawing when printed on the front and back. This was documented by letter to Robert Amoruso dated July 31, 2002 from the Office of the Attorney General, State of Florida.

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Drawing No. FLEX20100
Sheet 1 of 2

FASTENER LOCATION TABLE (see Elevation View, Sheet 1)

Series	Size Code	Frame Width and Height: Width	Height (Full Radius)	Height (Half Radius)	Fastener Screw Location: Head (No. 10 WS)	Jambs (No. 10 WS or Concrete Screw)
1000/1500/2000	12	19 1/8	26 13/16	28 5/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	13	19 1/8	39 3/16	40 11/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	14	19 1/8	51 7/16	52 15/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	145	19 1/8	57 1/16	58 9/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	15	19 1/8	63 13/16	65 5/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	16	19 1/8	72 13/16	74 5/16	A, B, C	D, E, F, G, H, I, J, K
1000/1500	17	19 1/8	84	84	A, B, C	D, E, F, G, H, I, J, K
2000	17	19 1/8	90	86 5/16	A, B, C	D, E, F, G, H, I, J, K, Y, Z
1000/1500/2000	1H2	26 1/2	27 7/16	29 9/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	1H3	26 1/2	39 13/16	41 15/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	1H4	26 1/2	52 1/16	54 3/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	1H45	26 1/2	57 11/16	59 13/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	1H5	26 1/2	64 7/16	66 9/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	1H6	26 1/2	73 7/16	75 9/16	A, B, C	D, E, F, G, H, I, J, K
1000/1500	1H7	26 1/2	84	84	A, B, C	D, E, F, G, H, I, J, K
2000	1H7	26 1/2	90	87 9/16	A, B, C	D, E, F, G, H, I, J, K, Y, Z
1000/1500/2000	3H2	30 1/2	27 7/3/96	30 11/48	A, B, C	D, E, F, G, H, I
1000/1500/2000	3H3	30 1/2	40 13/96	42 29/48	A, B, C	D, E, F, G, H, I
1000/1500/2000	3H4	30 1/2	52 37/96	54 41/48	A, B, C	D, E, F, G, H, I
1000/1500/2000	3H45	30 1/2	58 1/96	60 23/48	A, B, C	D, E, F, G, H, I
1000/1500/2000	3H5	30 1/2	64 73/96	67 11/48	A, B, C	D, E, F, G, H, I
1000/1500/2000	3H6	30 1/2	73 73/96	76 11/48	A, B, C	D, E, F, G, H, I, J, K
1000/1500	3H7	30 1/2	84 1/96	83 47/48	A, B, C	D, E, F, G, H, I, J, K
2000	3H7	30 1/2	90 1/96	89 47/48	A, B, C	D, E, F, G, H, I, J, K, Y, Z
1000/1500/2000	22	37	28 5/16	31 5/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	23	37	40 11/16	43 11/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	24	37	52 15/16	55 15/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	245	37	58 9/16	61 9/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	25	37	65 5/16	68 5/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	26	37	74 5/16	77 5/16	A, B, C	D, E, F, G, H, I, J, K
1000/1500	27	37	84	84	A, B, C	D, E, F, G, H, I, J, K
2000	27	37	90	86 5/16	A, B, C	D, E, F, G, H, I, J, K, Y, Z
1000/1500/2000	452	48	29 7/32	33 7/48	A, B, C	D, E, F, G, H, I
1000/1500/2000	483	48	41 19/32	45 25/48	A, B, C	D, E, F, G, H, I
1000/1500/2000	484	48	53 27/32	57 37/48	A, B, C	D, E, F, G, H, I
1000/1500/2000	4845	48	59 15/32	63 19/48	A, B, C	D, E, F, G, H, I
1000/1500/2000	485	48	66 7/32	70 7/48	A, B, C	D, E, F, G, H, I
1000/1500/2000	486	48	75 7/32	79 7/48	A, B, C	D, E, F, G, H, I, J, K
1000/1500	487	48	84	84 1/12	A, B, C	D, E, F, G, H, I, J, K
2000	487	48	90	90 1/12	A, B, C	D, E, F, G, H, I, J, K, Y, Z
1000/1500/2000	32	53 1/8	29 21/32	34	A, B, C	D, E, F, G, H, I
1000/1500/2000	33	53 1/8	42 1/32	46 3/8	A, B, C	D, E, F, G, H, I
1000/1500/2000	34	53 1/8	54 9/32	58 5/8	A, B, C	D, E, F, G, H, I
1000/1500/2000	345	53 1/8	59 29/32	64 1/4	A, B, C	D, E, F, G, H, I
1000/1500/2000	35	53 1/8	66 21/32	71	A, B, C	D, E, F, G, H, I
1000/1500/2000	36	53 1/8	75 21/32	80	A, B, C	D, E, F, G, H, I, J, K
1000/1500	n/a	n/a	n/a	n/a	n/a	n/a
2000	37	53 1/8	90	90	A, B, C	D, E, F, G, H, I, J, K, Y, Z

FASTENER INSTALLATION INSTRUCTIONS - FLEX22110

3/16" DIA. CONCRETE SCREW WITH NON-STRUCTURAL ONE BY WOOD BUCK:

(I) Where window is installed in an opening with a non-structural one by wood buck for the jambs and masonry or concrete sill, installation is as follows:
(1) At the jambs, use a 3/16" diameter concrete screw of sufficient length to achieve minimum embedment of 1-1/4" into masonry or concrete. See "Parts List" on Sheet 1 of this drawing for concrete screw size, embedment and load requirements. See FLEX20100, Note 7 for additional concrete screw requirements.
(2) At the sill, apply a Structural Adhesive Sealant for the full length of the Sill meeting the requirements of Note 2.b.i on FLEX 20100.
(J) See fastener installation table on this sheet for concrete screw locations in jambs and additional installation requirements.

#10 WOOD SCREW WITH (1) STRUCTURAL BUILD-DOWN FOR RADIUS HEAD, (2) OPTIONAL STRUCTURAL TWO BY WOOD BUCK AND (3) OPTIONAL ONE BY WOOD BUCK AT HEAD AND/OR JAMBS (SECTION A-A ALTERNATE ILLUSTRATES THIS OPTION FOR HEAD, SIMILAR FOR SECTION B-B AT JAMB):

(K) Where window is installed in an opening with a (1) structural build-down for radius head, (2) optional structural two by wood buck and (3) optional one by wood buck at head and/or jambs, installation is as follows:
(1) For structural build-down at the head and/or two by wood buck at the head and/or jambs as applicable, use #10 wood screws of sufficient length to achieve 1-3/8" min. embedment into the two by wood buck and/or structural build-down. See "Parts List" on Sheet 1 of this drawing for wood screw size and embedment. See FLEX20100, Note 8 for additional wood screw requirements.
(2) For one by wood buck used in conjunction with a structural two by wood buck at the head and/or jambs as applicable use #10 wood screws of sufficient length to achieve 1-3/8" min. embedment into the two by wood buck. See "Parts List" on Sheet 1 of this drawing for wood screw size and embedment. See FLEX20100, Note 8 for additional wood screw requirements.
(3) At the sill, apply a Structural Adhesive Sealant for the full length of the Sill meeting the requirements of Note 2.b.i on FLEX 20100.
(L) If a two by and one by wood buck are used together (see Section A-A Alternate, similar for Section B-B), then #10 wood screws of sufficient length to achieve 1-3/8" min. embedment into the two by wood buck will be used and the one by wood buck will be secured to the two by wood buck as required in Note 4.a.ii.2 on drawing FLEX20100.
(M) #10 wood screws shall be installed at all factory applied installation fastener hole locations where applicable.
(N) Wood screws shall not be used to fasten assembly into the end grain of wood.

DESIGN PRESSURE RATING & FBC CODE COMPLIANCE

(O) If exact window size is not listed in fastener installation table, use fastener locations listed for next larger size.
(P) Installations depicted in these instructions acceptable for design pressures to 70 PSF for the window sizes shown in the chart. Design Pressures (D.P.) are positive and negative. Overall window assembly design pressure may be less than that shown in the fastener quantity table and shall be determined in accordance with Note 13 of FLEX20100.
(Q) Production Glazing may differ from that tested as allowed by ANSI/AAMA/NWWDA 101/I.S. 2, 101/I.S. 2/NAFS or AAMA/WDMA/CSA 101/I.S. 2/A440 and applicable Building Code. See Note 12 and 13 on Drawing FLEX 20100 for further details.
(R) Structural build-down at head, two by wood buck and/or framing at the head and jambs to be securely fastened to transfer the load to the masonry, concrete or other structural substrate per the FBC and the engineer of record's details as applicable.
(S) See FLEX20100, Notes 10 to 15 for additional FBC Code Compliance.

FASTENER LOCATION TABLE NOTES:
1. This chart and Notes I, J, K.1, L, M and N for use when Radius Head Flange Window is installed in opening with the following attributes:
   a. Wood Structural Build-Down at Head, and
   b. Masonry/Concrete Substrate and One-By Wood Buck at Jambs.
2. install Radius Head Flange Window using #10 Wood Screws with a 1-3/8" minimum embedment into the structural wood substrate in accordance with Notes K to N in an opening with the following attributes.
   a. Wood Structural Build-Down at Head,
   b. Optional Structural Two By Buck is installed at the head or jambs, and
   c. Optional One By Wood Buck is installed at the head or jambs.
3. See Note R regarding structural framing requirements.
4. See Sheet 1 for Fastener Location Diagrams.
5. Fasteners Y & Z applicable to Series 2000 Size 37 Only. 3/16" Hole must be drilled in field.

Drawing No. FLEX22110
Sheet 2 of 2

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TITLE: General Notes Drawing for Milestone Series 1000, 1500, 2000 & 3000 Non-Impact Resistant Aluminum Windows & Patio Sliding Glass Doors Installation Details

No.	Date	By	Description
0	6/6/05	RJA	Original Issue.
1	9/26/05	RJA	Editorial Changes.
2	12/27/05	RJA	Revised Notes 1, 6, 8 & 12
3	11/14/06	RJA	Revised Notes 2, 7, 8, 9, 12 & 13

Date: 11/14/06
Scale: NTS
Drawn By: RJA
Checked By: JH

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TITLE: Milestone Series 1000, 1500 & 2000 Non-Impact Resistant Aluminum Flange Frame Radius Head SH Window Installation Dwg. for Masonry/Wood Substrate with Concrete/Wood Screws

No.	Date	By	Description
0	12/27/05	RJA	Supersedes FLE20040
1	11/14/06	RJA	Revised Archonage.
2	3/02/07	RJA	Editorial Corrections

Date: 3/02/07
Scale: NTS
Drawn By: RJA
Checked By: JH

REVISIONS :

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FLORIDA EXTRUDERS
WINDOWS IN BLOCK

RELEASE DATE:

31 MAR 2006 pVMfile_blocks\18x24-1252dgn 13.5209

SHEET: 3 of 3

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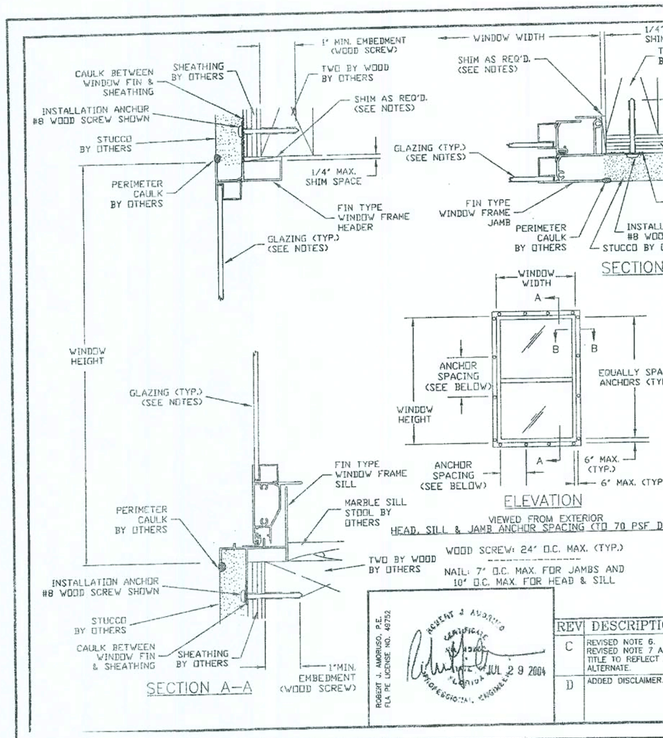

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PROFESSIONAL ENGINEER

JUL 29 2004

Disclaimer: The purpose of this installation drawing is to present the manufacturer's recommendations for anchorage (i.e., wood screws and nails) to achieve the design pressure specified on the fenestration product as required by Florida Building Code, Section 1707.4.4 - Anchorage Methods. Recommendations regarding flashing, sealing, sealant other joint sealant practices does not constitute a warranty either expressed or implied.

IMPORTANT INFORMATION & GENERAL NOTES

These notes are added to ensure proper installation of Florida Extruders Milestone products and must followed fully.

GENERAL INSTALLATION INSTRUCTIONS

1) SHIM AS REQUIRED EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. MAX. ALLOWABLE SHIM STACK TO BE 1/4". APPLY A BEAD OF VULKEM 116 ADHESIVE CAULK APPROVED EQUAL AT THE FASTENER LOCATION PRIOR TO INSERTING THE SHIM TO ADHERE THE SHIM TO THE SUBSTRATE AND/OR WINDOW FRAME. BEARING BETWEEN THE SHIM, SUBSTRATE AND WINDOW FRAME ARE REQUIRED.
2) USE SILICONIZED ACRYLIC CAULK BEHIND WINDOW FIN AT HEAD, SILL & JAMBS.
3) USE SILICONIZED ACRYLIC CAULK FOR PERIMETER SEAL AROUND EXTERIOR OF WINDOW FRAME
4) FLORIDA EXTRUDERS 1000 SERIES SINGLE HUNG IS SHOWN. THIS PRINT ALSO APPLIES TO THE FLORIDA EXTRUDERS 1500 AND 2000 SERIES SINGLE HUNGS.
5) WINDOW FRAME MATERIAL: ALUMINUM ALLOY 6063.

ANCHOR INSTALLATION INSTRUCTIONS

GENERAL:

6) ALL INSTALLATION ANCHORS MUST BE MADE OF CORROSION RESISTANT MATERIALS OR HAVE A CORROSION RESISTANT COATING AND SUITABLE FOR THE ENVIRONMENT AND/OR FRAMING MATERIAL. WHERE ANCHORS ARE USED IN PRESSURE-PRESERVATIVE TREATED WOOD, THE WOOD SUPPLIER SHALL BE CONSULTED FOR RECOMMENDATION OF ANCHORS COMPATIBLE WITH THE PRESSURE-PRESERVATIVE TREATMENT PROCESS USED.
7) ALL FIELD SUPPLIED HOLES IN FRAME (IF REQUIRED) WILL BE:
a) 3/16" IN DIAMETER FOR #8 WOOD SCREWS, AND
b) THE SHANK DIAMETER OF THE NAIL ROUNDED UP TO THE NEXT STANDARD DESIGNATION DRILL BIT SIZE.
8) WOOD SCREWS SHALL MEET ANSI/B18.6.1 DIMENSIONAL REQUIREMENTS.
9) NAILS SHALL MEET ASTM F 1667, "STANDARD SPECIFICATION FOR DRIVEN FASTENERS: NAILS, SPIKES, AND STAPLES."
10) IF WOOD TENDS TO SPLIT, PRERE HOLE AS FOLLOWS (PER NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION REQUIREMENTS):
a) #8 WOOD SCREWS - 1/8" DIA. PILOT HOLE.
b) 0.113" DIA. NAILS - #44 DRILL SIZE PILOT HOLE.
c) OTHER NAIL DIAMETER PILOT HOLES NOT EXCEEDING 75% OF THE NAIL'S DIAMETER AS REQUIRED.
11) WOOD SCREW AND NAIL WITHDRAWAL VALUES USED TO GENERATE FASTENING REQUIREMENTS ARE BASED ON SOUTHERN PINE WITH A SPECIFIC GRAVITY OF 0.55.
12) WOOD SCREWS AND NAILS SHOULD NOT BE MIXED TO FASTEN THE SAME ASSEMBLY.
13) WOOD SCREWS AND NAILS SHOULD NOT BE USED TO FASTEN ASSEMBLY INTO THE END GRAIN OF WOOD.

[SEE SHEET 2 FOR CONTINUATION OF NOTES]

REV	DESCRIPTION	DATE	INI
C	REVISED NOTE 6. REVISED NOTE 7 AND TITLE TO REFLECT NAIL ALTERNATE.	12/10/03	RJA
D	ADDED DISCLAIMER.	7/29/04	RJA

FLORID EXTRUDERS INTERNATIONAL, INC.
CERTIFICATE OF AUTHORIZATION NO. 9235
2540 JEWETT LANE
SANFORD, FLORIDA

TITLE: INSTALLATION DETAIL W/#8 SCREWS OR NAILS
SINGLE HUNG FIN WINDOW - SERIES 1000, 1500, & 2000

DRAWN BY: BI | APPROVED BY: RJA
DATE: 7/29/0 | SCALE: N. T. S. | DWG.:FLEX0026 SHT 1 OF 2

#8 WOOD SCREW INSTALLATION ANCHOR CHART			
CALL SIZE	WINDOW SIZE	QUANTITY IN HEAD & SILL UP TO 70 PSF	QUANTITY IN EACH JAMB UP TO 70 PSF
2024	23 1/2 X 27 1/2	2	2
2030	23 1/2 X 35 1/2	2	2
2038	23 1/2 X 43 1/2	2	3
2040	23 1/2 X 47 1/2	2	3
2044	23 1/2 X 51 1/2	2	3
2050	23 1/2 X 59 1/2	2	4
2060	23 1/2 X 71 1/2	2	4
2070	23 1/2 X 83 1/2	2	4
2424	27 1/2 X 27 1/2	2	2
2430	27 1/2 X 35 1/2	2	3
2438	27 1/2 X 43 1/2	2	3
2440	27 1/2 X 47 1/2	2	3
2444	27 1/2 X 51 1/2	2	3
2450	27 1/2 X 59 1/2	2	4
2460	27 1/2 X 71 1/2	2	4
2470	27 1/2 X 83 1/2	2	4
2824	31 1/2 X 27 1/2	2	2
2830	31 1/2 X 35 1/2	2	2
2838	31 1/2 X 43 1/2	2	3
2840	31 1/2 X 47 1/2	2	3
2844	31 1/2 X 51 1/2	2	3
2850	31 1/2 X 59 1/2	2	3
2860	31 1/2 X 71 1/2	2	4
2870	31 1/2 X 83 1/2	2	4
3024	35 1/2 X 27 1/2	2	2
3030	35 1/2 X 35 1/2	2	2
3038	35 1/2 X 43 1/2	2	3
3040	35 1/2 X 47 1/2	2	3
3044	35 1/2 X 51 1/2	2	3
3050	35 1/2 X 59 1/2	2	4
3060	35 1/2 X 71 1/2	2	4
3070	35 1/2 X 83 1/2	2	4
3424	39 1/2 X 27 1/2	3	2
3430	39 1/2 X 35 1/2	3	2
3438	39 1/2 X 43 1/2	3	3
3440	39 1/2 X 47 1/2	3	3
3444	39 1/2 X 51 1/2	3	3
3450	39 1/2 X 59 1/2	3	4
3460	39 1/2 X 71 1/2	3	4
3470	39 1/2 X 83 1/2	3	4
3824	43 1/2 X 27 1/2	3	2
3830	43 1/2 X 35 1/2	3	3
3838	43 1/2 X 43 1/2	3	3
3840	43 1/2 X 47 1/2	3	3
3844	43 1/2 X 51 1/2	3	3
3850	43 1/2 X 59 1/2	3	4
3860	43 1/2 X 71 1/2	3	4
3870	43 1/2 X 83 1/2	3	4
4024	47 1/2 X 27 1/2	3	2
4030	47 1/2 X 35 1/2	3	3
4038	47 1/2 X 43 1/2	3	3
4040	47 1/2 X 47 1/2	3	3
4044	47 1/2 X 51 1/2	3	3
4050	47 1/2 X 59 1/2	3	4
4060	47 1/2 X 71 1/2	3	4
4070	47 1/2 X 83 1/2	3	4

#8 WOOD SCREW INSTALLATION ANCHOR CHART			
CALL SIZE	WINDOW SIZE	QUANTITY IN HEAD & SILL UP TO 70 PSF	QUANTITY IN EACH JAMB UP TO 70 PSF
12	18 1/8 X 25	2	2
13	18 1/8 X 37 3/8	2	3
14	18 1/8 X 49 5/8	2	3
145	18 1/8 X 55 1/4	2	3
15	18 1/8 X 62	2	4
16	18 1/8 X 71	2	4
17	18 1/8 X 83	2	4
1H2	25 1/2 X 25	2	2
1H3	25 1/2 X 37 3/8	2	3
1H4	25 1/2 X 49 5/8	2	3
1H45	25 1/2 X 55 1/4	2	3
1H5	25 1/2 X 62	2	4
1H6	25 1/2 X 71	2	4
1H7	25 1/2 X 83	2	4
30 1/2 x 26	29 1/2 X 25	2	2
30 1/2 x 38 3/8	29 1/2 X 37 3/8	2	3
30 1/2 x 50 5/8	29 1/2 X 49 5/8	2	3
30 1/2 x 56 1/4	29 1/2 X 55 1/4	2	3
30 1/2 x 63	29 1/2 X 62	2	4
30 1/2 x 72	29 1/2 X 71	2	4
30 1/2 x 84	29 1/2 X 83	2	4
22	36 X 25	2	2
23	36 X 37 3/8	2	3
24	36 X 49 5/8	2	3
245	36 X 55 1/4	2	3
25	36 X 62	2	4
26	36 X 71	2	4
27	36 X 83	2	4
42 x 26	41 X 25	3	2
42 x 38 3/8	41 X 37 3/8	3	3
42 x 50 5/8	41 X 49 5/8	3	3
42 x 56 1/4	41 X 55 1/4	3	3
42 x 63	41 X 62	3	4
42 x 72	41 X 71	3	4
42 x 84	41 X 83	3	4
48 x 26	47 X 25	3	2
48 x 38 3/8	47 X 37 3/8	3	3
48 x 50 5/8	47 X 49 5/8	3	3
48 x 56 1/4	47 X 55 1/4	3	3
48 x 63	47 X 62	3	4
48 x 72	47 X 71	3	4
48 x 84	47 X 83	3	4
32	52 1/8 X 25	3	2
33	52 1/8 X 37 3/8	3	3
34	52 1/8 X 49 5/8	3	3
345	52 1/8 X 55 1/4	3	3
35	52 1/8 X 62	3	4
36	52 1/8 X 71	3	4
* 37	52 1/8 X 83	3	4

* 37 SIZE NOT AVAILABLE IN 1000 OR 1500 SERIES

IMPORTANT INFORMATION & GENERAL NOTES (cont.)

ANCHOR INSTALLATION INSTRUCTIONS (cont.)

#8 WOOD SCREWS:

14) SEE THIS SHEET FOR #8 WOOD SCREW INSTALLATION ANCHOR CHART.
15) #8 WOOD SCREW MUST BE OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1" INTO THE TWO BY WOOD FRAMING.
16) SPACING OF WOOD SCREWS SHALL BE:
a) 6" FROM EACH CORNER OF THE HEAD, SILL AND JAMBS, AND
b) EVENLY SPACED BETWEEN CORNER ANCHORS BUT NOT EXCEEDING 24" O.C. SPACING IN HEAD, SILL AND JAMBS.

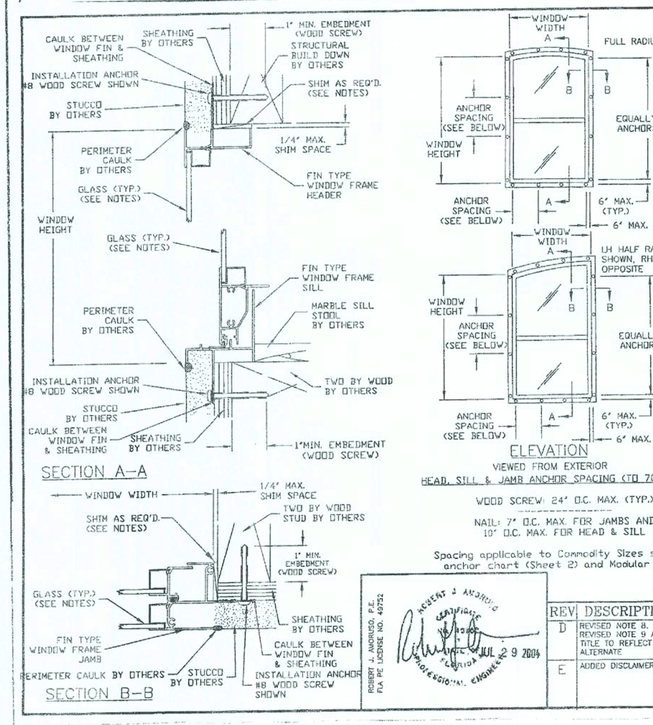
NAILS:

17) NAILS SHALL MEET THE FOLLOWING REQUIREMENTS:
a) 0.113" DIAMETER OR GREATER,
b) SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1 7/8" INTO THE TWO BY WOOD FRAMING (GENERALLY, NAIL 2 3/8" LENGTH OR GREATER SHALL MEET THIS REQUIREMENT).
c) HELICAL (SCREW) OR ANNULAR (RING) SHANK STYLE ONLY, AND
d) MANUFACTURER SHALL BE LISTED IN NATIONAL EVALUATION SERVICES, INC.'S NATIONAL EVALUATION REPORT, NER-272.
18) MANUFACTURER'S NAILS MEETING THESE REQUIREMENTS ARE (BUT NOT LIMITED TO) THE FOLLOWING:
a) PASLODE DEFORMED SHANK NAIL, NO. 404947, 404537, 650111 AND 650148.
b) DURO-FAST DEFORMED SHANK NAIL NO. 325.
19) SPACING OF NAILS SHALL BE:
a) 6" FROM EACH CORNER OF THE HEAD, SILL AND JAMBS, AND
b) EVENLY SPACED BETWEEN CORNER ANCHORS AND NOT EXCEEDING 7" O.C. SPACING FOR THE JAMBS AND 10" O.C. SPACING FOR THE HEAD AND SILL.

DESIGN PRESSURE RATING & FBC REQUIREMENTS

20) IF EXACT WINDOW SIZE IS NOT LISTED IN WOOD SCREW ANCHOR CHART, USE ANCHOR QUANTITY LISTED FOR NEXT LARGER SIZE.
21) INSTALLATIONS DEPICTED IN THESE INSTRUCTIONS ACCEPTABLE FOR DESIGN PRESSURES TO 70 PSF FOR WINDOW SIZES SHOWN IN CHART WITH SPACINGS SHOWN. DESIGN PRESSURES (D.P.) SHOWN ARE POSITIVE AND NEGATIVE.
22) GLASS THICKNESS MAY VARY PER THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS.
23) COMPLIES WITH CHAPTER 17 SECTIONS 1707.4.4.1 FOR ANCHORING REQUIREMENTS AND 1707.4.4.3 FOR WOOD OR APPROVED FRAMING MEMBERS, MARCH 1,2002.

REV	FLORIDA EXTRUDERS INTERNATIONAL, INC. 2540 JEWETT LANE SANFORD, FLORIDA CERTIFICATE OF AUTHORIZATION NO. 9235
A	
B	TITLE: INSTALLATION DETAIL W/#8 SCREWS OR NAILS
C	SINGLE HUNG FIN WINDOW - SERIES 1000, 1500, & 2000
D	DRAWN BY: BB / APPROVED BY: RJA
	DATE: 7/29/04 / SCALE: NTS / DWG.: FLEX0026 SHT 2 OF 2



ROBERT J. AMBROSO, P.E.
FLA. PE. LICENSE NO. 49752

ROBERT J. AMBROSO
CERTIFICATE NO. 49752
STATE OF FLORIDA
PROFESSIONAL ENGINEER

JUL 29 2004

Disclaimer: The purpose this installation drawing is to present the manufacturer's recommendations for anchorage (i.e., wood screws and nails) to achieve the design pressure specified on the fenestration product as required by Florida Building Code, Section 1707.4.4 - Anchorage Methods. Recommendations regarding flashing, sealing, sealant or other joint sealant practices does constitute a warranty either expressed or implied.

IMPORTANT INFORMATION & GENERAL NOTES

These notes are provided to ere proper installation of Florida Extruders Milestone products and must be followed fully.

GENERAL INSTALLATION INSCTIONS

1) SHIM AS REQ'D. AT EACH TALLATION ANCHOR WITH LOAD BEARING SHIM. MAX. ALLOWABLE SHIM STACK TO BE 1/4". APPLY BEAD OF VULKEM 116 ADHESIVE CAULK OR APPROVED EQUAL AT THE FASTENER LOCATION PR TO INSERTING THE SHIM TO ADHERE THE SHIM TO THE SUBSTRATE AND/OR WINDOW FRAME. FIBEARING BETWEEN THE SHIM, SUBSTRATE AND WINDOW FRAME ARE REQUIRED.
2) USE SILICONIZED ACRYLIC CAULK BEHIND WINDOW FIN AT HEAD, SILL & JAMBS.
3) USE SILICONIZED ACRYLIC CAULK FOR PERIMETER SEAL AROUND EXTERIOR OF WINDOW FRAME.
4) FLORIDA EXTRUDERS 1000 SERIES SINGLE HUNG IS SHOWN. THIS PRINT ALSO APPLIES TO THE FLORIDA EXTRUDERS 1500 AND 2000 SERIES SINGLE HUNGS.
5) WINDOW FRAME MATERIAL: ALUMINUM ALLOY 6063.
6) BUILD DOWN AROUND CLIP PORTION OF WINDOW FRAME TO BE ENGINEERED BY OTHERS. BUILD DOWN MUST BE OF SUFFICIENT STRENGTH TO ADEQUATELY TRANSFER LOAD FROM WINDOW TO THE STRUCTURE PER SECTION 1707.4.4.
7) WINDOW UNIT CAN BE MET TO OTHER UNITS USING ALUMINUM TUBE MULLION. SEE MULLION INSTALLATION SHEETS FOR REQUIREMENTS.

ANCHOR INSTALLATION INSTRUCTIONS

GENERAL:

8) ALL INSTALLATION ANCHORS MUST BE MADE OF CORROSION RESISTANT MATERIALS OR HAVE A CORROSION RESISTANT COATING AND SUITABLE FOR THE ENVIRONMENT AND/OR FRAMING MATERIAL. WHERE ANCHORS ARE USED IN PRESSURE-PRESERVATIVE TREATED WOOD, THE WOOD SUPPLIER SHALL BE CONSULTED FOR RECOMMENDATION OF ANCHORS COMPATIBLE WITH THE PRESSURE-PRESERVATIVE TREATMENT PROCESS USED.
9) ALL FIELD SUPPLIED HOLES IN THE FRAME (IF REQUIRED) WILL BE:
a) 3/16" IN DIAMETER FOR WOOD SCREWS, AND
b) THE SHANK DIAMETER OF THE NAIL ROUNDED UP TO THE NEXT STANDARD DESIGNATION DRILL BITS.
10) WOOD SCREWS SHALL MEET ANSI/B18.6.1 DIMENSIONAL REQUIREMENTS.
11) NAILS SHALL MEET ASTM 367, "STANDARD SPECIFICATION FOR DRIVEN FASTENERS: NAILS, SPIKES, AND STAPLES."
12) IF WOOD TENDS TO SPLITE-BORE HOLE AS FOLLOWS (PER NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION REQUIREMENTS):
a) #8 WOOD SCREWS - 1/8A. PILOT HOLE.
b) 0.113" DIA. NAILS - #44LL SIZE PILOT HOLE.
c) OTHER NAIL DIAMETEROT HOLES NOT EXCEEDING 75% OF THE NAILS DIAMETER AS REQUIRE
13) WOOD SCREW AND NAIL THORAWAL VALUES USED TO GENERATE FASTENING REQUIREMENTS ARE BASED ON SOUTHERN PINITH A SPECIFIC GRAVITY OF 0.55.
14) WOOD SCREWS AND NAILSHALL NOT BE MIXED TO FASTEN THE SAME ASSEMBLY.
15) WOOD SCREWS AND NAILSHALL NOT BE USED TO FASTEN ASSEMBLY INTO THE END GRAIN OF WOOD.

[SEE SHEET 2 FOR CONTINUAN OF NOTES]

Disclaimer: The purpose this installation drawing is to present the manufacturer's recommendations for anchorage (i.e., wood screws and nails) to achieve the design pressure specified on the fenestration product as required by Florida Building Code, Section 1707.4.4 - Anchorage Methods. ommendations regarding flashing, sealing, sealant or other joint sealant practices does constitute a warranty either expressed or implied.

REV	DESCRIPTION	DATE	INI
D	REVISED NOTE 8. REVISED NOTE 9 AND TITLE TO REFLECT NAIL ALTERNATE	12/10/03	RJA
E	ADDED DISCLAIMER.	7/29/04	RJA

FLORIA EXTRUDERS INTERNATIONAL, INC.
CERTIFICATE OF ABRIZATION NO. 9235
2540 JEWETT LANE
SANFORD, FLORIDA

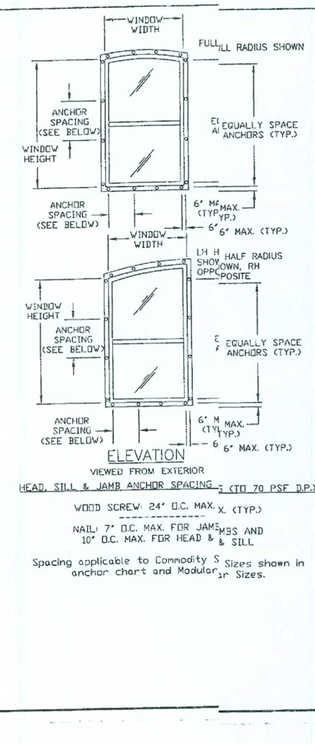
TITLE: INSTAATION DETAIL W/#8 SCREWS OR NAILS
SINGLE HUNGRADIUS HEAD FIN - SERIES 1000, 1500, & 2000

DRAWN BY: J | APPROVED BY: RJA
DATE: 7/29/(| SCALE: N. T. S. | DWG.:FLEX0041 SHEET 1 OF 2

#8 WOOD SCREW INSTALLATION ANCHOR CHART			
CALL SIZE	WINDOW SIZE	QUANTITY IN HEAD & SILL UP TO 70 PSF	QUANTITY IN EACH JAMB UP TO 70 PSF
12	18 1/8 X 27 5/16	2	2
13	18 1/8 X 39 11/16	2	3
14	18 1/8 X 51 15/16	2	3
145	18 1/8 X 57 19/32	2	3
15	18 1/8 X 64 5/16	2	4
16	18 1/8 X 73 5/16	2	4
1H2	25 1/2 X 28 9/16	2	2
1H3	25 1/2 X 40 15/16	2	3
1H4	25 1/2 X 53 3/16	2	3
1H45	25 1/2 X 58 13/16	2	3
1H5	25 1/2 X 65 9/16	2	4
1H6	25 1/2 X 74 9/16	2	4
29 1/2 X 29 7/32	29 1/2 X 29 7/32	2	2
29 1/2 X 41 19/32	29 1/2 X 41 19/32	2	3
29 1/2 X 53 27/32	29 1/2 X 53 27/32	2	3
29 1/2 X 59 15/32	29 1/2 X 59 15/32	2	3
29 1/2 X 66 7/32	29 1/2 X 66 7/32	2	4
29 1/2 X 75 7/32	29 1/2 X 75 7/32	2	4
22	36 X 30 5/16	2	2
23	36 X 42 11/16	2	3
24	36 X 54 15/16	2	3
245	36 X 60 9/16	2	3
25	36 X 67 5/16	2	4
26	36 X 76 3/16	2	4
41 X 31 5/32	41 X 31 5/32	3	2
41 X 43 17/32	41 X 43 17/32	3	3
41 X 55 25/32	41 X 55 25/32	3	3
41 X 61 3/8	41 X 61 3/8	3	3
41 X 68 5/32	41 X 68 5/32	3	4
41 X 77 5/32	41 X 77 5/32	3	4
47 X 32 5/32	47 X 32 5/32	3	2
47 X 44 17/32	47 X 44 17/32	3	3
47 X 56 25/32	47 X 56 25/32	3	3
47 X 62 3/8	47 X 62 3/8	3	3
47 X 69 5/32	47 X 69 5/32	3	4
47 X 78 5/32	47 X 78 5/32	3	4
32	52 1/8 X 33	3	2
33	52 1/8 X 45 3/8	3	3
34	52 1/8 X 57 5/8	3	3
345	52 1/8 X 63 1/4	3	3
35	52 1/8 X 70	3	4
36	52 1/8 X 79	3	4

INSTALLATION ANCHOR CHART NOTES:

1. Window sizes shown are for Commodity Size Windows.
2. Modular Size Windows will use the anchor quantities shown for the next larger sized Commodity Window.
3. Anchor spacing requirements for Commodity and Modular Size Windows shown on this sheet.
4. Dimensions given are for half radius head units, full radius will be shorter.



IMPORTANT INFORMATION & GENERAL NOTES (cont.)

ANCHOR INSTALLATION INSTRUCTIONS (cont.)

#8 WOOD SCREWS:

16) SEE THIS SHEET FOR #8 WOOD SCREW INSTALLATION ANCHOR CHART.
17) #8 WOOD SCREW MUST BE OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1" INTO THE TWO BY WOOD BUCK OR BUILD-DOWN STRUCTURAL FRAMING COMPONENT.
18) SPACING OF WOOD SCREWS SHALL BE:
a) 6" FROM EACH CORNER OF THE HEAD, SILL AND JAMBS, AND
b) EVENLY SPACED BETWEEN CORNER ANCHORS BUT NOT EXCEEDING 24" O.C. SPACING IN HEAD, SILL AND JAMBS.

NAILS:

19) NAILS SHALL MEET THE FOLLOWING REQUIREMENTS:
a) 0.113" DIAMETER OR GREATER.
b) SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1 7/8" INTO THE TWO BY WOOD BUCK OR BUILD-DOWN STRUCTURAL FRAMING COMPONENT(GENERALLY, NAIL 2 3/8" LENGTH OR GREATER SHALL MEET THIS REQUIREMENT).
c) HELICAL (SCREW) OR ANNULAR (RING) SHANK STYLE ONLY, AND
d) MANUFACTURER SHALL BE LISTED IN NATIONAL EVALUATION SERVICES, INC.'S NATIONAL EVALUATION REPORT, NER-272.
20) MANUFACTURER'S NAILS MEETING THESE REQUIREMENTS ARE (BUT NOT LIMITED TO) THE FOLLOWING:
a) PASLODE DEFORMED SHANK NAIL, NO. 404947, 404537, 650111 AND 650148.
b) DURO-FAST DEFORMED SHANK NAIL NO. 325.
21) SPACING OF NAILS SHALL BE:
a) 6" FROM EACH CORNER OF THE HEAD, SILL AND JAMBS, AND
b) EVENLY SPACED BETWEEN CORNER ANCHORS AND NOT EXCEEDING 7" O.C. SPACING FOR THE JAMBS AND 10" O.C. SPACING FOR THE HEAD AND SILL.

DESIGN PRESSURE RATING & FBC REQUIREMENTS

22) IF EXACT WINDOW SIZE IS NOT LISTED IN WOOD SCREW ANCHOR CHART, USE ANCHOR QUANTITY LISTED FOR NEXT LARGER SIZE.
23) INSTALLATIONS DEPICTED IN THESE INSTRUCTIONS ACCEPTABLE FOR DESIGN PRESSURES TO 70 PSF FOR WINDOW SIZES SHOWN IN CHART WITH SPACINGS SHOWN. DESIGN PRESSURES (D.P.) SHOWN ARE POSITIVE AND NEGATIVE.
24) GLASS THICKNESS MAY VARY PER THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS.
25) COMPLIES WITH CHAPTER 17 SECTIONS 1707.4.4.1 FOR ANCHORING REQUIREMENTS AND 1707.4.4.3 FOR WOOD OR APPROVED FRAMING MEMBERS, MARCH 1, 2002.

REV	FLORIDA EXTRUDERS INTERNATIONAL, INC. 2540 JEWETT LANE SANFORD, FLORIDA CERTIFICATE OF AUTHORIZATION NO. 9235
B	
C	TITLE: INSTALLATION DETAIL W/#8 SCREWS OR NAILS
D	SINGLE HUNG RADIUS HEAD FIN - SERIES 1000, 1500, & 2000
E	DRAWN BY: RJA / APPROVED BY: RJA
	DATE: 7/29/04 / SCALE: N. T. S. / DWG.: FLEX0041 SHEET 2 OF 2

REVISIONS:

Maronda Homes
4005 MARONDA WAY SANFORD, FLORIDA
(407) 321-0064

FLORIDA EXTRUDERS
WINDOWS IN FRAME

RELEASE DATE:

SHEET:
1 of 3

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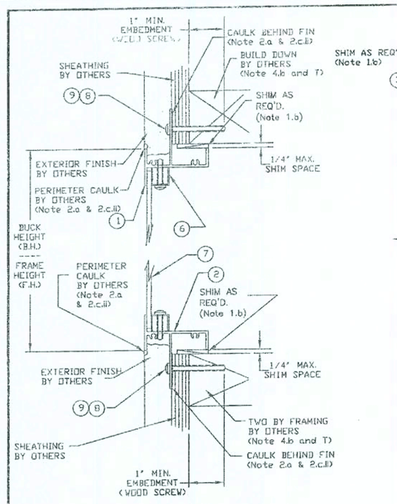
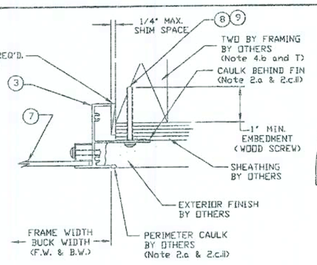
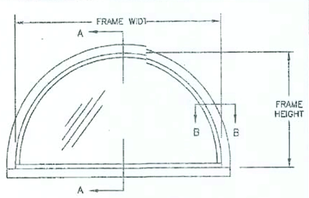


SECTION A-A



SECTION B-B

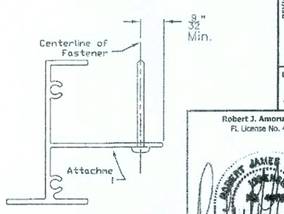


EXTERIOR ELETION

DISCLAIMER: The purpose of this installation drawing is to present the manufacturer's recommendations for anchorage (i.e., concrete screws, wood screws, tapping screws, nails and Vulcem Structural Adhesive (or other approved equal) as applicable) to achieve the design pressure specified on the fenestration product as required by the 2001 Florida Building Code (FBC), Section 1707.4.4, 2001 FBC-Building, Section 1716.5.4 and the 2004 FBC-Residential, Section R613.6. Recommendations regarding flashing, sealing, sealants or other joint sealant practices does not constitute a warranty either expressed or implied.

GENERAL NOTES

(1 to 16) See General Notes Drawing FLEX20100, Sheet 1 & 2.
(A) Milestone Series 1000 Designer Fixed Aluminum Window is shown. Also applicable to Series 1750 & 2000 Designer Fixed Aluminum Windows.
(B) Drawing applicable to Non-Impact Resistant glazed windows.
(C) Production Glazing may differ from that tested as allowed by ANSI/AAMA/NWWDA 101/I.S. 2 - 97 or 101/I.S. 2 NAFS and applicable Building Code. See Note 12 and 13 on Drawing FLEX 20100 for further details.
(D) For Fastener Spacing see Notes (L) and (P) on Sheet 2 of this drawing. See Note (H) regarding deviations.
(E) Wood screw and nail withdrawal values used to generate the fastening requirements are based on Southern Pine with a Specific Gravity of 0.55. See Note (H) regarding deviations.
(F) Wood or tapping screw edge distance measured from edge of wood to centerline of wood or tapping screw must meet or exceed 1". Minimum size and embedment per Parts List. See Note (H) regarding deviations.
(G) Nail edge distance measured from edge of wood to centerline of nail must meet or exceed 9/16" or 5 times Shank Diameter, whichever is larger. Minimum size and embedment per Parts List. See Note (H) regarding deviations.
(H) Any deviation less than the minimum requirements stated must be approved by the manufacturer or engineered by "other" Design Professional in accordance with the applicable Building Code and Product Approval.
(I) All field supplied holes in the frame (if required) will be 3/16" in diameter for #8 wood screws or the shank diameter of the nail rounded up to the next standard designation drill bit size.
(J) Wood Screws and Nails SHALL NOT be mixed to fasten the same assembly.



Wood Screw or Nail Id must be in full contact with Achment Fin. Centerline of fastenerhall be approximately 9/32" m edge of Attachment Fin.

DETA A

PARTS LIST

1 Head - FinFrame
2 Sill - Fin Frame
3 Jamb - Fin Frame
4 Not Used
5 Not Used
6 Glazing Bead - Rigid Vinyl
7 Glazing - See Note (B) and (C)
8 #8 Wood or Tapping Screw with a minimum embedment of 1" into the structural wood substrate. See Note (K) and Detail A on this drawing and Note 4.b & 8 on Drawing FLEX20100.
9 Round Head Deformed Shank Nail with minimum 0.113" diameter (11 GA) and minimum embedment of 1-7/8" into the structural wood substrate. See Note (N) and Detail A on this drawing and Notes 4.b & 9 on Drawing FLEX20100.

Florida Extruders Int'l., Inc.
2540 Jewett Lane - Sanford, FL 32771
407-322-3320 - 407-322-3507 (fax)
www.floridaextruders.com
Florida COA No. 9235

TITLE: Milestone Series 1000 & 2000 Non-Impact Resistant Aluminum Fin Frame Designer Fixed Window Installation Drawing for Wood Substrates With Wood Screws or Nails

No.	Date	Description
1	1/6/06	Revised
0	12/27/05	Submittal FLEX0037

Date: 12/27/05
Scale: NTS
Drawn By: RJA
Checked By: JH

Robert J. Amoruso, P.E.
FL License No. 49752

Drawing No. FLEX28120
Sheet 1 of 2

FASTENER INSTALLATION INSTRUCTIONS - FLEX28120

#8 WOOD SCREWS:

(K) #8 Wood Screw must be of sufficient length to achieve minimum embedment of 1" into the two by wood framing or the build-down framing component.
(L) #8 Wood Screw spacing shall be as follows:
- 5" maximum from each corner of head, sill or jambs, and
- evenly spaced between corner fasteners but not exceeding 24" o.c. spacing in head, sill or jambs for the following configurations at design pressures to 70 PSF:
  - eyebrow
  - half-circle arch
  - half-eyebrow
  - octagon
  - fan
  - pentoid
  - full-circle
  - half-circle
  - triangle
  - trapezoid
  - oval
- evenly spaced between corner fasteners but not exceeding 16" o.c. spacing in head, sill or jambs for the following configurations at design pressures to 70 PSF:
  - quarter-circle
  - quarter-circle arch
  - half-fan

(M) Wood screws shall not be used to fasten assembly into end grain of wood.

NAILS:

(N) Nails shall meet the following requirements:
- 0.113" diameter or greater,
- sufficient length to achieve minimum embedment of : 7/8" into the two by wood or build-down framing (generally, nail 2 3/8" length or greater shall meet this requirement), and
- helical (screw) or annular (ring) shank style only.

(O) Manufacturer's nails meeting these requirements are (but not limited to) the following:
- Paslode deformed shank nail, No. 404947, 404537, 650111 and 650148.
- Duro-Fast deformed shank nail No. 325.

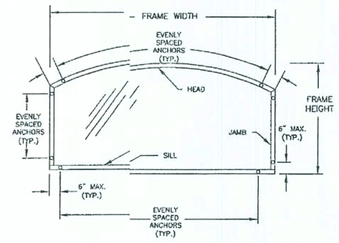
(P) Spacing of nails shall be:
- 8" from each corner of the head, sill and jambs, and
- evenly spaced between corner fasteners but not exceeding the o.c. spacing in head, sill and jambs for the following configurations at design pressures 46 to 70 PSF:
  - eyebrow 7" o.c. spacing
  - half-eyebrow 7" o.c. spacing
  - fan 7" o.c. spacing
  - half-fan 5" o.c. spacing
  - full-circle 9" o.c. spacing
  - half-circle 9" o.c. spacing
  - half-circle arch 7" o.c. spacing
  - quarter-circle 5" o.c. spacing
  - quarter-circle arch 5" o.c. spacing
  - oval 15" o.c. spacing
  - octagon 9" o.c. spacing
  - pentoid 7" o.c. spacing
  - triangle 7" o.c. spacing
  - trapezoid 7" o.c. spacing

(P) Spacing of nails shall be (continued):
- evenly spaced between corner fasteners but not exceeding the o.c. spacing in head, sill and jambs for the following configurations at design pressures to 45 PSF:
  - eyebrow 12" o.c. spacing
  - half-eyebrow 12" o.c. spacing
  - fan 11" o.c. spacing
  - half-fan 8" o.c. spacing
  - full-circle 14" o.c. spacing
  - half-circle 11" o.c. spacing
  - half-circle arch 12" o.c. spacing
  - quarter-circle 8" o.c. spacing
  - quarter-circle arch 8" o.c. spacing
  - oval 24" o.c. spacing
  - octagon 14" o.c. spacing
  - pentoid 12" o.c. spacing
  - triangle 12" o.c. spacing
  - trapezoid 12" o.c. spacing

(Q) Nails shall not be used to fasten assembly into end grain of wood

DESIGN PRESSURE RATING & I & FBC CODE COMPLIANCE

(R) Installations depicted in these instructions acceptable for design pressures to 70 PSF with fastener spacing in Notes (L) and (P). Design Pressures (D.P.) are positive and negative. Overall window assembly design pressure may be less than 70 PSF and shall be determined in accordance with Note 13 of FLEX20100.
(S) Production Glazing may differ from that tested as allowed by ANSI/AAMA/NWWDA 101/I.S. 2 - 97 or 101/I.S. 2 NAFS and applicable Building Code. See Note 12 and 13 on Drawing FLEX 20100 for further details.
(T) Structural two by wood and/or framing at the head, sill and jambs to be securely fastened to transfer the load to the wood structural substrate per the FBC and the engineer of record's details as applicable.
(U) See FLEX20100, Notes 10 to 15 for additional FBC Code Compliance.



EXTERIOR ELEVATION

ANCHOR SPACING ILLUSTRATION
EYEBROW ARCH DESIGNER WINDOW

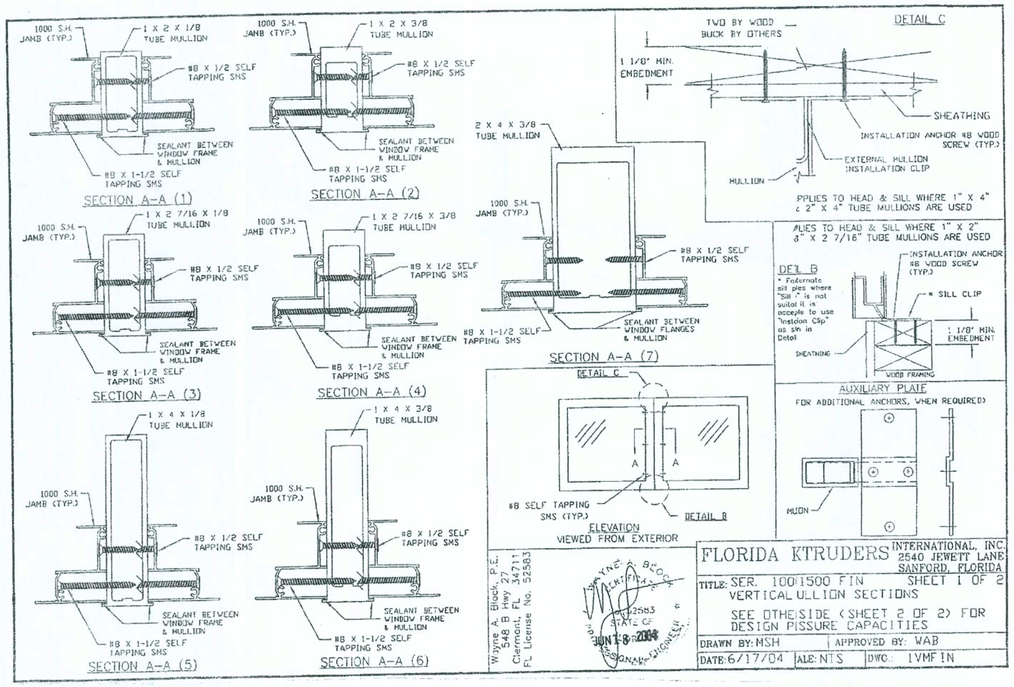
Florida Extruders Int'l., Inc.
2540 Jewett Lane - Sanford, FL 32771
407-322-3320 - 407-322-3507 (fax)
www.floridaextruders.com
Florida COA No. 9235

TITLE: Milestone Series 1000 & 2000 Non-Impact Resistant Aluminum Fin Frame Designer Fixed Window Installation Drawing for Wood Substrates With Wood Screws or Nails

No.	Date	Description
1	1/6/06	Revised
0	12/27/05	Submittal FLEX0037

Date: 12/27/05
Scale: NTS
Drawn By: RJA
Checked By: JH

Drawing No. FLEX28120
Sheet 2 of 2



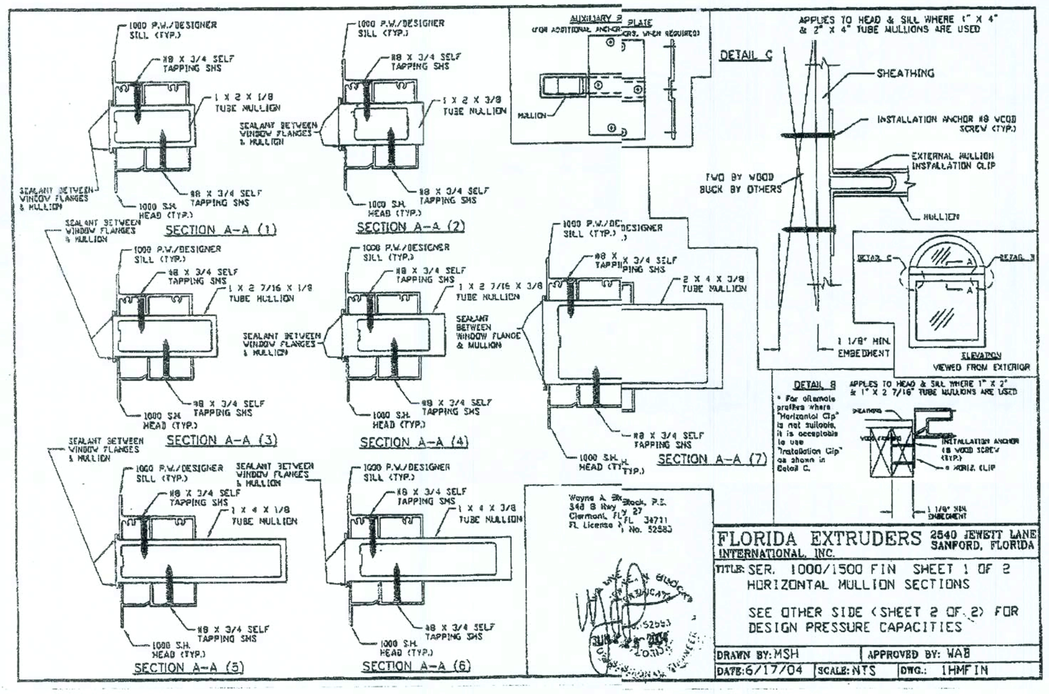
Wayne A. Block, P.E.
348 B Hwy
Clermont, FL 34711
FL License No. 52583

FLORIDA KTRUDERS INTERNATIONAL, INC.
2540 JEWETT LANE
SANFORD, FLORIDA

TITLE: SER. 1000/1500 FIN SHEET 1 OF 2
VERTICAL ULLION SECTIONS

SEE OTHE SIDE (SHEET 2 OF 2) FOR DESIGN PISSURE CAPACITIES

DRAWN BY: MSH | APPROVED BY: WAB
DATE: 6/17/04 | ALE: NTS | DWG.: 1VMFIN



Wayne A. Block, P.E.
348 B Hwy
Clermont, FL 34711
FL License No. 52583

FLORIDA EXTRUDERS INTERNATIONAL, INC. 2540 JEWETT LANE SANFORD, FLORIDA

TITLE: SER. 1000/1500 FIN SHEET 1 OF 2
HORIZONTAL MULLION SECTIONS

SEE OTHER SIDE (SHEET 2 OF 2) FOR DESIGN PRESSURE CAPACITIES

DRAWN BY: MSH | APPROVED BY: WAB
DATE: 6/17/04 | SCALE: NTS | DWG.: 1HMFIN

REVISIONS :

Maronda Homes
4005 MARONDA WAY SANFORD, FLORIDA
(407) 321-0064

FLORIDA EXTRUDERS
WINDOWS IN FRAME

RELEASE DATE:

SHEET: 2 of 3

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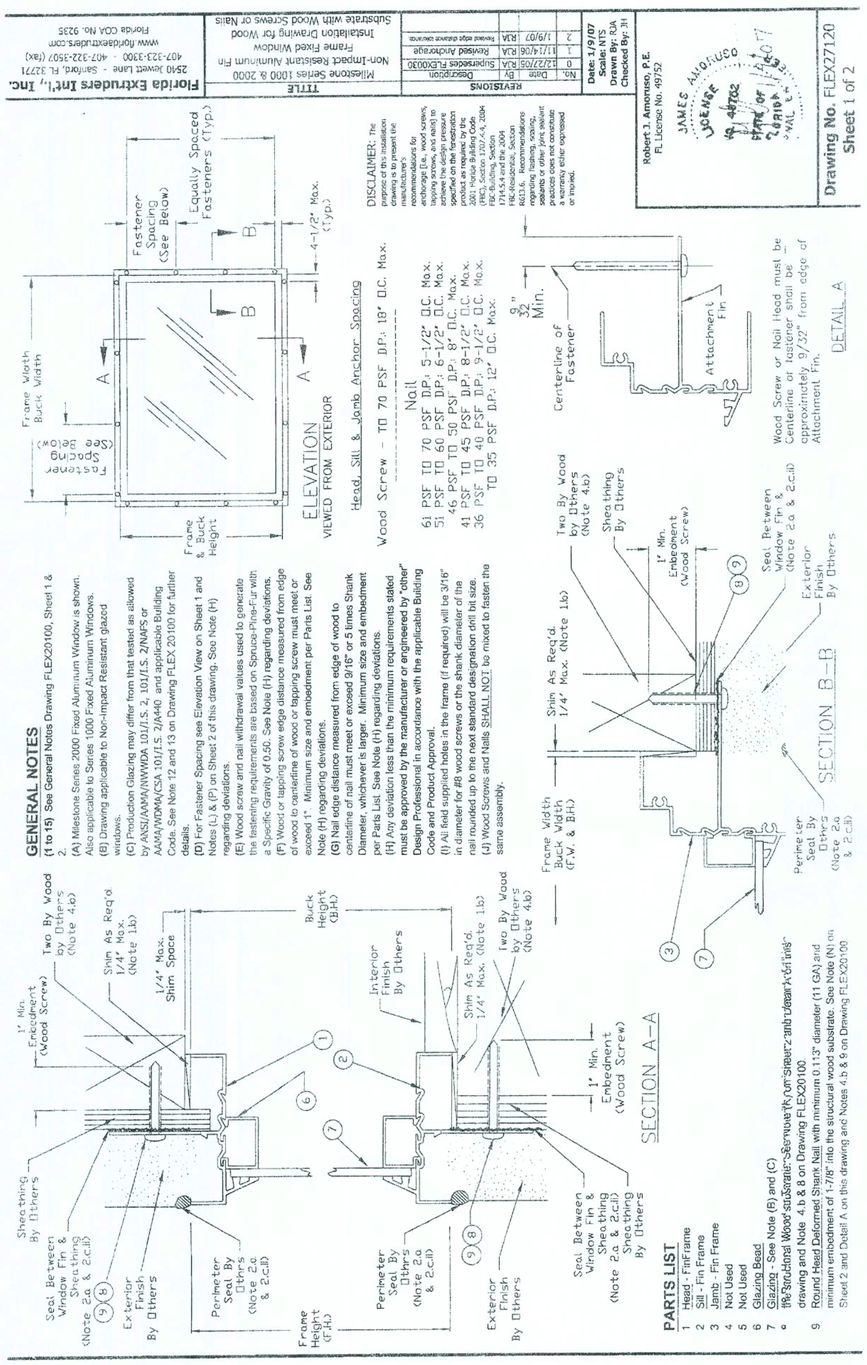
c:\pasteuptitle.dgn Apr. 03, 2006 09:11:03



GENERAL NOTES

(1 to 15) See General Notes Drawing FLEX20100, Sheet 1 & 2.

(A) Milestone Series 2000 Fixed Aluminum Window is shown. Also applicable to Series 1000 Fixed Aluminum Windows.

(B) Drawing applicable to Non-Impact Resistant glazed windows.

(C) Production Glazing may differ from that tested as allowed by ANSI/AAMA/NWWDA 101/I.S. 2, 101/I.S. 2/NAFS or AAMA/WDMA/CSA 101/I.S. 2/A440 and applicable Building Code. See Note 12 and 13 on Drawing FLEX 20100 for further details.

(D) For Fastener Spacing see Elevation View on Sheet 1 and Notes (L) & (P) on Sheet 2 of this drawing. See Note (H) regarding deviations.

(E) Wood screw and nail withdrawal values used to generate the fastening requirements are based on Spruce-Pine-Fur with a Specific Gravity of 0.50. See Note (H) regarding deviations.

(F) Wood or tapping screw edge distance measured from edge of wood to centerline of wood or tapping screw must meet or exceed 1" Minimum size and embedment per Parts List. See Note (H) regarding deviations.

(G) Nail edge distance measured from edge of wood to centerline of nail must meet or exceed 9/16" or 5 times Shank Diameter, whichever is larger. Minimum size and embedment per Parts List. See Note (H) regarding deviations.

(H) Any deviation less than the minimum requirements stated must be approved by the manufacturer or engineered by "other" Design Professional in accordance with the applicable Building Code and Product Approval.

(I) All field supplied holes in the frame (if required) will be 3/16" in diameter for #8 wood screws or the shank diameter of the nail rounded up to the next standard designation drill bit size.

(J) Wood Screws and Nails SHALL NOT be mixed to fasten the same assembly.

PARTS LIST

1 Head - FinFrame
2 Sill - Fin Frame
3 Jamb - Fin Frame
4 Not Used
5 Not Used
6 Glazing Bead
7 Glazing - See Note (B) and (C)
8 #8 Structural Wood Screws - See Note (K) on Sheet 2 and Detail A on this drawing and Note 4.b & 8 on Drawing FLEX20100
9 Round Head Deformed Shank Nail with minimum 0.113" diameter (11 GA) and minimum embedment of 1-7/8" into the structural wood substrate. See Note (N) on Sheet 2 and Detail A on this drawing and Notes 4.b & 9 on Drawing FLEX20100

DISCLAIMER: The purpose of this installation drawing is to present the manufacturer's recommendations for anchorage (i.e., wood screws, tapping screws, and nails) to the structural substrate specified on this fenestration product as required by the 2001 Florida Building Code, Residential Section R609.4, 2004 FBC-Building, Section 1714.5.4 and the 2004 FBC-Residential, Section R613.6. Recommendations regarding flashing, caulking, sealants or other joint sealant products are not intended as a warranty either expressed or implied.

Robert J. Amoruso, P.E.
FL License No. 49752

JAMES AMORUSO LICENSE No. 49752 STATE OF FLORIDA PROFESSIONAL ENGINEER

Drawing No. FLEX27120
Sheet 1 of 2

Florida Extruders Int'l., Inc.
2510 Jewett Lane - Sanford, FL 32771
407-323-3300 - 407-322-3507 (fax)
www.floridaextruders.com

TITLE: Milestone Series 1000 & 2000 Non-Impact Resistant Aluminum Fin Frame Fixed Window Installation Drawing for Wood Substrate with Wood Screws or Nails

No.	Date	By	Description
0	11/27/06	RJA	Supersedes FLEX0030
1	11/14/06	RJA	Revised Anchorage
2	1/9/07	RJA	Revised edge distance requirements

Date: 1/9/07
Scale: NTS
Drawn By: RJA
Checked By: JH

FASTENER INSTALLATION INSTRUCTIONS - FLEX27120

#8 WOOD SCREWS:

(K) #8 Wood Screw must be of sufficient length to achieve minimum embedment of 1" into the two by wood framing.

(L) Spacing of wood screws shall be:
- 4-1/2" max. from each corner of the head, sill and jambs, and
- evenly spaced between corner fasteners but not exceeding 18" o.c. spacing for the head, sill and jambs as shown in Elevation View on Sheet 1 of this drawing.
- Tolerance is +/- 1". This tolerance is applicable to the evenly spaced distance. 2
- Corner distance measured from frame/buck width or height dimension of frame.

(M) Wood screws shall not be used to fasten assembly into end grain of wood.

NAILS:

(N) Nails shall meet the following requirements:
- 0.113" diameter or greater,
- sufficient length to achieve minimum embedment of 1 7/8" into the two by wood framing (generally, nail 2 3/8" length or greater shall meet this requirement), and
- helical (screw) or annuler (ring) shank style only.

(O) Manufacturer's nails meeting these requirements are (but not limited to) the following:
- Paslode deformed shank nail, No. 404947, 404537, 650111 and 650148.
- Duro-Fast deformed shank nail No. 325.

(P) Spacing of nails shall be:
- 4-1/2" max. from each corner of the head, sill and jambs, and
- evenly spaced between corner fasteners and not exceeding o.c. spacing for the head, sill and jambs as shown in Elevation View on Sheet 1 of this drawing.
- Tolerance is +/- 1". This tolerance is applicable to the evenly spaced distance. 2
- Corner distance measured from frame/buck width or height dimension of frame.

(Q) Nails shall not be used to fasten assembly into end grain of wood.

DESIGN PRESSURE RATING & FBC CODE COMPLIANCE

(R) Installations depicted in these instructions are acceptable for design pressures to 70 PSF with fastener spacing shown the Elevation View on Sheet 1 of this drawing for the following window sizes:
- to 52 1/8" x 95
- to 63" x 80"
- to 71" x 71"
- to 73" x 73"
- to 83" x 55 1/4"
- to 95" x 49 5/8"
- to 119" x 37 3/8"

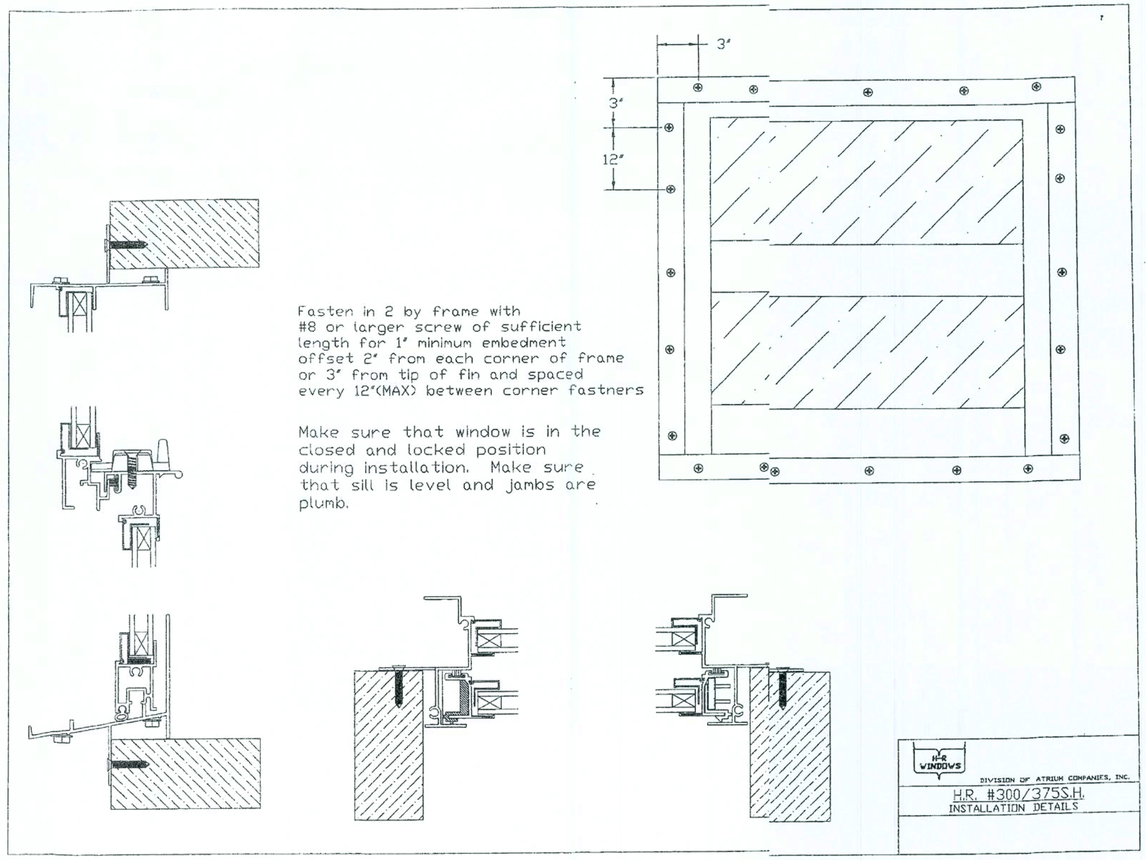
Design Pressures (D.P.) are positive and negative. Overall window assembly design pressure may be less than 70 PSF and shall be determined in accordance with Note 13 of FLEX20100.

(S) Production Glazing may differ from that tested as allowed by ANSI/AAMA/NWWDA 101/I.S. 2, 101/I.S. 2/NAFS or AAMA/WDMA/CSA 101/I.S. 2/A440 and applicable Building Code. See Note 12 and 13 on Drawing FLEX 20100 for further details.

(T) Structural two by wood buck and/or framing at the head, sill and jambs to be securely fastened to transfer the load to the wood structural substrate per the FBC and the engineer of record's details as applicable.

(U) See FLEX20100, Notes 10 to 15 for additional FBC Code Compliance.

Drawing No. FLEX27120
Sheet 2 of 2



REVISIONS:
3-11-08 Revised

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

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FLORIDA EXTRUDERS
WINDOWS IN FRAME

RELEASE DATE:

$DATE$ $TIME$ $FILE$

SHEET:
3 of 3

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PRODUCT APPROVAL INFORMATION SHEET FOR FORDIA

PROJECT NAME: _____ PERMIT # _____

PROJECT ADDRESS: _____

As required by Florida Statute 553.842 and Florida Administrative Code 9b-72, Please provide the information and product approval number(s) for the building components listed below as applicable to the building construction project for the permit number listed above. You should contact you product supplier if you do not know the product approval number for any of the applicable listed products. Information regarding statewide product approval may be obtained at: www.floridabuilding.org.

Category/Subcategory	Manufacturer	Product Description	Limitation of Use	State #	Design Pressures
A. EXTERIOR DOORS					
1. Swinging	Plastpro Inc.	Fiberglass Doors	Evaluated for use in locatio adhering to the Florida Bulleg Code and twere pressure requirements as determined ACSE 7 Minimum Design Lds For Building and Other Struires.	FL 6729.1 FL 6729.5	+ 50 / -50 + 50 / -50
2. Sliding	Simonton/Norandex Florida Extruders	Sliding Glass Doors	500 72X80 SGD-R4 Milestone 1000 SGD	FL 5979.1 FL 45.1	+ 50 / -50 +45 / -45
3. Sectional					
4. Roll up	Wayne Dalton	Garage Doors 130 16' 9100 / 5120 8' Garage Doors 140 16' 9100 / 5120 8'	As indicated in evaluan report and Installation drawings. Not to be used in HVHZ.	FL 5287.1 Fl 5287.3 FL 9174.4 FL 9174.5	+26.9 /-30.8 +25.9 /-28.8 +43.2 /-49.6 +39.2 /-43.7
B. WINDOWS					
1. Single Hung	H-R Windows Danvid Window Co Florida Extruders	300 Fin Single Hung 341 Flange Frame S.H. Milestine 1000 S.H.	40-17 72x74 H-r45	FL5089.1 FL 2752.1 FL 42.1	+45 / -45 +55 / -55 +45 / -45
2. Horizontal Silder					
3. Casement					
4. Double hung					
5. Fixed	H-R Windows Danvid Window Co Florida Extruders	300Fin Frame Fixed341 Flange Frame Fixed Milestone 1000 Fixed	437.438 111X63 F-C601/16 Tempered Gla Flange & Fin	FL 1291.2 FL 2349.1 FL 44.1	+55 / -55 +70 / -70 +45 / -45
6. Awning					
7. Pass-through					
8. Projected					
9. Mullion	H-R Windows Florida Extruders	Mullions Milestone Tube Mull Fin Or Flange	Evaluated for use in locatio adhering to the Florida Bulleg Code and where pressure requirements as determined ACSE 7 Minimum Design Lds for Building and Other Struires.	FL 5782 FL 3136-R2	+45 / -45
10. Wind breaker					
11. Dual action					
12. Other					
C. PANEL WALL					
1. Siding	Owen Corning	Norandex - Summit Manor Dbl 4.5 Butch Lap Reynolds - Easy Street Dbl 4.5 Dutch Lap	This Evaluation is not fo use within the FBC HVH or on Education Facilities thin the State of Florida. Vinyl Siding is limited to Type construction, as defined dow. Section 602.5- TYPE V CONSTRUCTION Type V construction is the type of construction in which the structural elements, exterr walls and interior walls are of ant material permitted by this code. Compliance i valid only if the subject profile trade nar is current on the VSI Vinyl Sling Certification Program.	FL 920.3 FL 920.7	+NA / -152 +NA / -152
2. Soffit	Alsco Metal Corp	16" Vented Soffit Quad 4 Aluminum Soffit	For use as soffit only. It for use in HVHZ	FL 4459.1	46.71 PSF

Category/Subcategory	Manufacturer	Product Description	Limitation of Use	State #	Design Pressures
D. ROOFING PRODUCTS					
1. Asphalt shingles	Owens Corning	Asphalt Shingle Ridge Vents	This Approval not for use in the HVHZ. All FBC sections that apply to counties except Broward and Miami-Dade must be followed.	FL 3663 FL 234	
2. Underlayments					
3. Roofing fasteners					
4. Nonstructural metal roof					
5. Built- up roofing					
6. Modified bitumen	Polyglass	Two layer torch down	The max design pressure for the selected assembly shall meet or exceed the Zone 1 design pressure as determined in accordance with FBC chapter 16.	FL 1654.8 FL 1654.9	
7. Single ply roofing					
8. Roofing tiles					
9. Roofing Insulation					
10. Waterproofing					
11. Wood shingles/shakes					
12. Roofing slate					
13. Liquid applied roofing					
14. Cement-adhesive coats					
15. roof tile adhesive					
16. Spray applied polyurethane roof					
17. roof vents	Owens Corning Stamco Inc. Lamanco	Galvanized metal roof vents	This Approval not for use in the HVHZ. All FBC sections that apply to counties except Broward and Miami-Dade must be followed.	FL 5289.1 FL 8103.1 FL 3792.5	
E. SHUTTERS					
1. Storm Panels	Atrium Shutters, Inc. K&D Manufacturing All American Shutters, Inc.	5L Panel Galv. Stl Storm	This product may only be installed on concrete, hollow concrete block or wood substrates. This product is NOT suitable for installation in the High Velocity Hurricane Zone.	FL 5547.1 FL 2773.1 FL 393.1	50 PSF +47 / -50
F. STRUCTURAL COMPONENTS					
1. Wood connector/anchor	United Steel Products	Anchors, Hangers Etc. Structural Components Wood Connectors	Subject to limitation and Installation Instructions specified in NOA A 05-0105.05	FL. R1.565, 569.572, 576.815.816, 817.818.819, 820.821, 822.859, 1247.1777, 2033.2620, 3923.4928, 5631.6223	
2. Truss plates	Mitek Industries Inc.	Truss Connectors	No Limitation of Use.	FL 2197 R1	
3. Engineered lumber					
4. Railing					
5. Coolers-freezers					
6. Concrete admixtures					
7. Material					
8. Insulation forms					
9. Plastics					
10. Deck-roof					
11. Wall					
12. Sheds					
G. SKYLIGHTS					
1. Skylight					
2. Other					
H. NEW EXTERIOR ENVELOPE PRODUCTS					
1.					
2.					

In addition to completing the above list of manufacturers, product description and State approval number for the products used on this project, it is the Contractor's or Authorized Agent's reponsibility to have a legible copy of each manufacturer's printed instructions, along with the list above, on the job site available to the Inspector.

The products listed below did not demonstrate product approval at time of plan review. I understand that before these products can be inspected, they must be submitted for review for code compliance and approved by the Plans Examiner. This form will be revised to include each new product in the categories listed above and will be highlighted to indicate the new products and required information.

_____

_____

_____

_____

_____

Authorized Project Agent: _____ _____
(Contractor or Design Professional) (Print Name) (Signature)

Company Name: _____

Mailing Address: _____

_____

City: _____ State: _____ Zip Code: _____

Telephone Number: ( ) _____ Fax Number: ( ) _____

Cell Phone Number: ( ) _____ E-mail Address: _____

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

REVISIONS :
10-29-07 UPDATE LISTS
01-21-08 UPDATE ROLL UP DOORS

Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 RESIDENTIAL AND 2006 SUPPLEMENT

PRODUCT APPROVAL

GARAGE:

DRAWN BY:

RELEASE DATE: 08.13.13

PLOT DATE: 21 JAN 2008

p:\fhprod_approval.dgn

SHEET:

DISTINCTION SERIES

SMC INSWING RESIDENTIAL INSULATED FIBERGLASS DOOR IN WOOD FRAME

GENERAL NOTES

1. THE FOLLOWING PRODUCT HAS BEEN EVALUATED FOR COMPLIANCE WITH THE WIND LOADS SPECIFIED IN SECTION 120 OF THE TEXAS DEPARTMENT OF INSURANCE WINDSTORM RESISTANT CONSTRUCTION GUIDE AND SECTION 103 OF THE TEXAS WINDSTORM INSURANCE ASSOCIATION BUILDING CODE FOR WINDSTORM RESISTANT CONSTRUCTION.
2. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
3. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
4. PRODUCT DOES NOT MEET IMPACT RESISTANCE
5. DESIGN PRESSURE RATING SHALL BE AS FOLLOWS:
   - FOR 6' 8" HIGH DOORS: SEE TABLE 1.
   - FOR FRAMES OVER 6' 8" UP TO 8' 0": SEE TABLE 2.

DISTINCTION SMC FIBERGLASS DOOR

DOOR LEAF CONSTRUCTION:

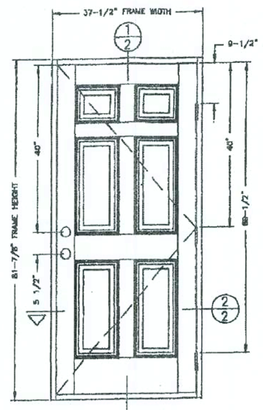
FACE SHEETS: EACH SLAB IS CONSTRUCTED FROM 0.080" THICK FIBERGLASS SKIN.

CORE DESIGN: THE INTERIOR CAVITY OF EACH DOOR IS FILLED WITH RIGID POLYURETHANE.

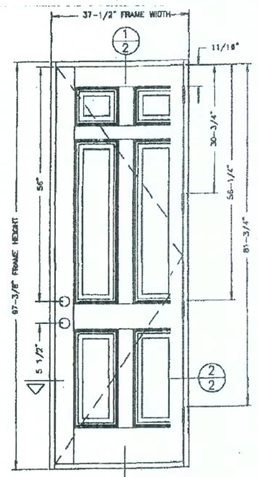
CONSTRUCTION: THE VERTICAL EDGES OF THE SLAB CONSIST OF GLUED INTERLOCKING FIBERGLASS JOINTS. THE HORIZONTAL EDGES CONSIST OF THE FIBERGLASS SKIN GLUED TO THE WOOD BLOCK AT TOP AND TO THE RIGID PVC FOAM INSERT AT BOTTOM.

TABLE OF CONTENTS

SHEET #	DESCRIPTION
1	GENERAL NOTES, TYPICAL ELEVATIONS
2	CROSS SECTIONS (VERTICAL AND HORIZONTAL)
3	ANCHORING LAYOUT
4	PART LIST



TYPICAL ELEVATION 6'-8" DOOR



TYPICAL ELEVATION 8'-0DOR

DESIGN PRESSURE RATING (TABLE #1)		
	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
POSITIVE	NOT APPROVED	+60 PSF
NEGATIVE	NOT APPROVED	-60 PSF

DESIGN PRESSURE RATING (TAE #2)		
	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERATER INFILTRATION REQUIRE IS NOT NEEDED
POSITIVE	NOT APPROVED	50 PSF
NEGATIVE	NOT APPROVED	55 PSF

PLASTPRO, INC. 9 PEACH TREE HILL RD. LIVINGSTON, NJ 07039

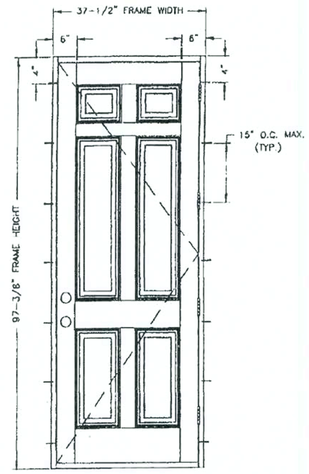
PRODUCT: DISTINCTION SERIES SMC INSWING FIBERGLASS PATIO DOOR

PART OF ASSEMBLY: GENERAL NOTES AND ELEVATIONS

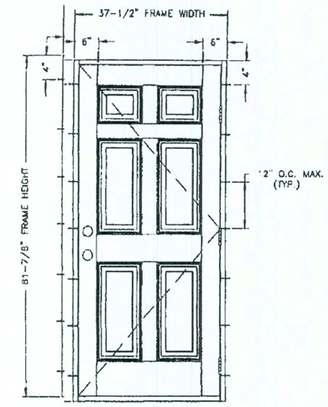
NO.	DATE	REVISIONS	BY

RW CONSULTING (813) 684-3831

DATE: 01/06/99
SCALE: N.T.S.
DWG. BY: R.P.P.
CHK. BY:
DRAWING NO.: 99-01
SHEET 1 OF 4



ANCHOR LAYOUT FOR 8'-0" DOOR



ANCHOR LAYOUT FOR 6'-8" DOOR

TYPICAL ANCHORS
1.) INTO 2BY WOOD BUCKS OR WOOD STRUCTURE #8 PFH Wd. Screw, 1" MIN. EMBEDMENT
2.) INTO 1BY WOOD BUCKS OR INTO MASONRY 3/16" DIA. TAPCONS WITH 1-1/4" MIN. EMBEDMENT

PLASTPRO, INC. 9 PEACH TREE HILL RD. LIVINGSTON, NJ 07039

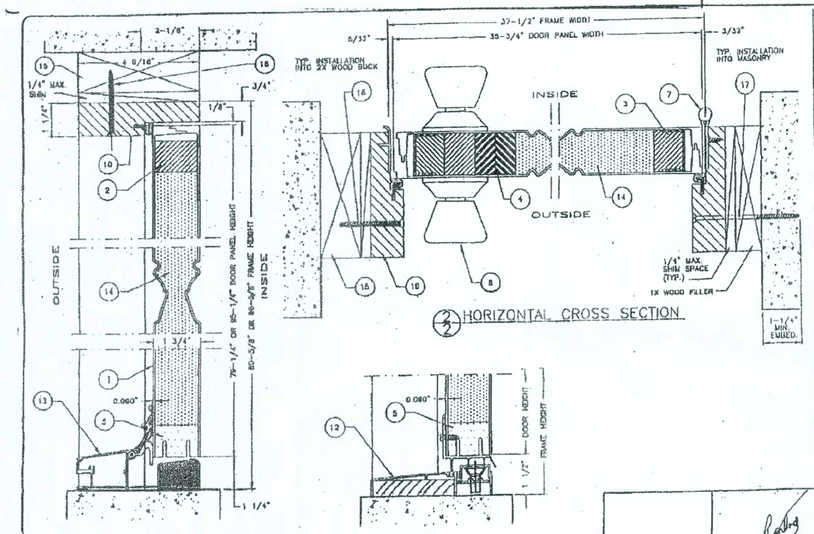
PRODUCT: DISTINCTION SERIES SMC INSWING FIBERGLASS PATIO DOOR

PART OF ASSEMBLY: ANCHORING LAYOUT

NO.	DATE	REVISIONS	BY

RW CONSULTING (813) 684-3831

DATE: 01/06/99
SCALE: N.T.S.
DWG. BY: R.P.P.
CHK. BY:
DRAWING NO.: 99-01
SHEET 3 OF 4



2/2 HORIZONTAL CROSS SECTION

1/2 VERTICAL CROSS SECTION

1/2 OPTIONAL THRESHOLD

NOTE:
WHEN REQ. THE USE OF 2X SHALL BE ALLOWED USING (4) EVENLY SPACED 1/4" X 3" TAPCONS IN THE SIDES, AND (2) EVENLY SPACED 1/4" X 3" TAPCONS IN THE HEADER ALL W/ 1 1/4" IMBEDMENT. IF NEEDED A 1X CAN BE NAILED 6" O.C. STAGGERED TO 2X. DOOR IS THEN ATTACHED PER DETAILS ON THIS PAGE.

PLASTPRO, INC. 9 PEACH TREE HILL RD.

PRODUCT: DISTINCTION SERIES SMC INSWING FIBERGLASS PATIO DOOR

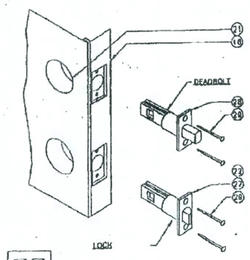
PART OF ASSEMBLY: VERTICAL & HORIZONTAL CROSS SECTIONS

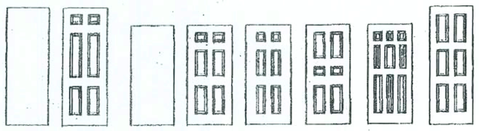
NO.	DATE	REVISIONS	BY

RW CONSULTING (813) 684-3831

DATE: 01/06/99
SCALE: N.T.S.
DWG. BY: R.P.P.
CHK. BY:
DRAWING NO.: 99-01
SHEET 2 OF 4

ITEM	DESCRIPTION	PART No.	MATERIAL
1	DOOR SKIN (8 PANEL 6'-8")	SKIN 82	SMC GRP THR FIBERGLASS
	DOOR SKIN (8 PANEL 8'-0")	SKIN 84	SMC GRP THR FIBERGLASS
2	TOP RAIL (6'-8")	WCA 30	WOOD (MAHOGANY)
	TOP RAIL (8'-0")	WCA 40	WOOD (MAHOGANY)
3	HINGE STILE	WCA 30	WOOD (MAHOGANY)
		RU 422	STEEL (SS 41)
4	LOCK STILE	WCA 30 (TWO PCS.)	WOOD (MAHOGANY)
		RU 422	STEEL (SS 41)
		WCA 20 (TWO PCS.)	WOOD (MAHOGANY)
5	BOTTOM RAIL	FAS 72	FOAM PVC EXTRUSION
		WAS 01	PVC
6	DOOR BOTTOM (INSWING)	SN 250 (ENDURA)	PVC CO-EXTRUSION
		BENCHMARK ADJ. DOOR SWEEP	PVC CO-EXTRUSION
		DOOR SWEEP	ALUMINUM / PVC
7	BUTT HINGE	4 X 4	BRASS
8	LATCH LOCK	KWIKSET 200 SERIES	
9	DEAD BOLT	KWIKSET 660 SERIES	
10	DOOR FRAME	4-9/16" WOOD FRAME	FINGER JOINTED MAPLE PINE
		605 640 MANUFACTURED	SCHLEGEL E-LON
12	THRESHOLD (INSWING)	0 1 8 ECONOMY	ALUMINUM / WOOD
		886 500 MANUFACTURED	SCHLEGEL E-LON
13	THRESHOLD (INSWING)	8000 THERMAL	ALUMINUM / WOOD
		886 450	SCHLEGEL E-LON
		8000 BUMPER	ALUMINUM / PVC
14	FOAM CORE		POLYURETHANE FOAM CORE
15	SP		WOOD BLOCK
16	ANCHOR	1/2" - 1/2" PFH Wd. Screw	STEEL
17	ANCHOR	3/16" X 1" TH TAPCON	STEEL





DOOR MODELS

PLASTPRO, INC. 9 PEACH TREE HILL RD.

PRODUCT: DISTINCTION SERIES SMC INSWING FIBERGLASS PATIO DOOR

PART OF ASSEMBLY: PARTS LIST

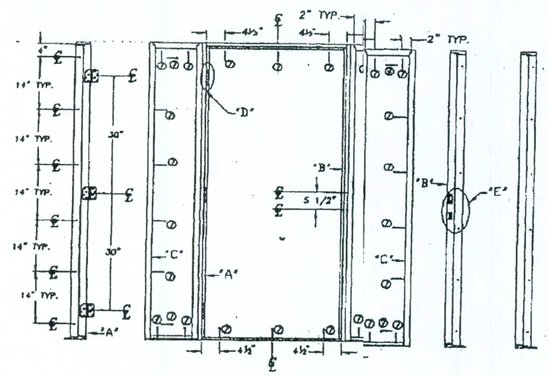
NO.	DATE	REVISIONS	BY

RW CONSULTING (813) 684-3831

DATE: 01/06/99
SCALE: N.T.S.
DWG. BY: R.P.P.
CHK. BY:
DRAWING NO.: 99-01
SHEET 4 OF 4

FINAL ANCHORING OF A WOOD FRAME UP TO 5'4 X 6'8
SINGLE INSWING UNIT W/WO SIDELITES
PRODUCT ACCEPTANCE No.: DSI222

SCREW SCHEDULE		
②	#10 X 5/8"	PHILLIPS FLAT HEAD
③	#10 X 1 3/4"	PHILLIPS FLAT HEAD
⑤	#10 X 2"	PHILLIPS FLAT HEAD
⑦	#10 X 3"	PHILLIPS FLAT HEAD



Product Acceptance No: DSI-222

Size: up to 5'4 x 6'8	Inswing (wood jamb) 2'0	2'4	2'6	Configuration: X, OXO, XO, OX 2'8	3'0
Single Opaque W/Sidelites	+80 -80	+80 -80	+80 -80	+80 -80	+80 -80
Single Glazed W/Sidelites	+75 -80	+64 -77	+60 -71	+60 -60	+60 -60
(Door does not meet Missile Impact)				+56 -67	+50 -60
Test # 210-1987, 210-2024				+50 -60	+50 -60

Mfg. by: Nan Ya Plastics / Plastpro Livingston, NJ 07039

REVISIONS :

Maronda Homes

4005 MARONDA WAY SANFORD, FLORIDA (407) 321-0064

EXT. DOOR DETAILS

IN SWING-FIBERGLASS

RELEASE DATE:

SHEET: FD1

03 JUN 2003 09:03:53 p:\fc200\fine_tracs\fc4-generation

DISTINCTION SERIES

SMC OUTSWING RESIDENTIAL INSULATED FIBERGLASS DOOR IN WOOD FRAME

GENERAL NOTES

1. THIS PRODUCT IS DESIGNED TO MEET THE SOUTH FLORIDA BUILDING CODE 1994 EDITION FOR MIAMI-DADE COUNTY.
2. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
3. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
4. IMPACT RESISTANT SHUTTERS NOT REQUIRED
5. DESIGN PRESSURE RATING SHALL BE AS FOLLOWS:
   - FOR 6' 8" HIGH DOORS: SEE TABLE 1.
   - FOR FRAMES OVER 6' 8" UP TO 8' 0": SEE TABLE 2.

DISTINCTION SMC FIBERGLASS DOOR

DOOR LEAF CONSTRUCTION:

FACE SHEETS: EACH SLAB IS CONSTRUCTED FROM 0.090" THICK FIBERGLASS SKIN.

CORE DESIGN: THE INTERIOR CAVITY OF EACH DOOR IS FILLED WITH RIGID POLYURETHANE.

CONSTRUCTION: THE VERTICAL EDGES OF THE SLAB CONSIST OF GLUED INTERLOCKING FIBERGLASS JOINTS.THE HORIZONTAL EDGES CONSIST OF THE FIBERGLASS SKIN GLUED TO THE WOOD BLOCK AT TOP AND TO THE RIGID PVC FOAM INSERT AT BOTTOM.

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2	CROSS SECTIONS (VERTICAL AND HORIZONTAL)
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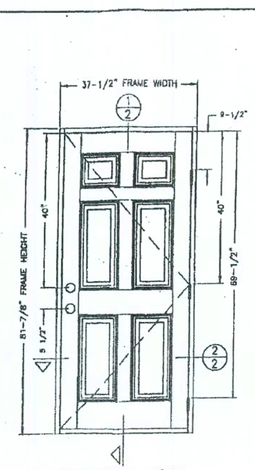
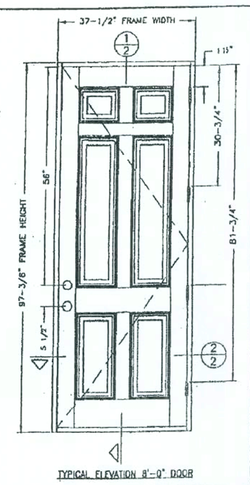


TYPICAL ELEVATION 6'-8" DOOR



TYPICAL ELEVATION 8'-0" DOOR

DESIGN PRESSURE RATING (TABLE #1)

	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
POSITIVE	+60 PSF	+80 PSF
NEGATIVE	-60 PSF	-80 PSF

DESIGN PRESSURE RATING (TABLE #2)

	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
POSITIVE	+60 PSF	+50 PSF
NEGATIVE	-65 PSF	-55 PSF

PLASTPRO, INC. 9 PEACH TREE HILL RD. LAWNSTON, NJ 07039

PRODUCT: DISTINCTION SERIES SMC OUTSWING FIBERGLASS DOOR PART OR ASSEMBLY: GENERAL NOTES AND ELEVATIONS

NO. DATE REVISIONS BY

RW CONSULTING (813) 684-3831

DATE 01/06/99 SCALE N.T.S. DWG. BY R.P.P. CHK. BY DRAWING NO. 99-02 SHEET 1 OF 4

DISTINCTION SERIES

SMC OUTSWING RESIDENTIAL INSULATED FIBERGLASS DOOR IN WOOD FRAME (STEEL REINFORCED WITH FULL GLASS LITE)

GENERAL NOTES

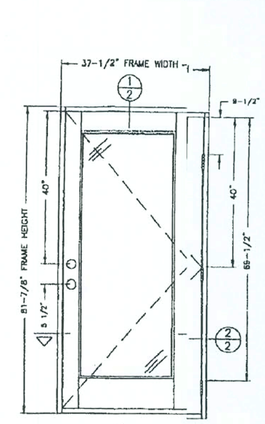
1. THIS PRODUCT IS DESIGNED TO MEET THE SOUTH FLORIDA BUILDING CODE 1994 EDITION FOR MIAMI-DADE COUNTY.
2. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
3. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
4. IMPACT RESISTANT SHUTTERS ARE REQUIRED
5. DESIGN PRESSURE RATING SHALL BE AS FOLLOWS:
   - FOR 6' 8" HIGH DOORS: SEE TABLE 1.
   - FOR FRAMES OVER 6' 8" UP TO 8' 0": SEE TABLE 2.

DOOR LEAF CONSTRUCTION:

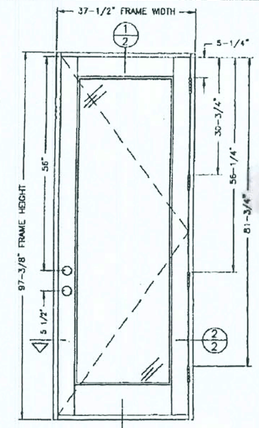
1. FACE SHEETS: EACH SLAB IS CONSTRUCTED FROM 0.075 THK. FIBERGLASS SKIN.
2. CORE DESIGN: THE INTERIOR CAVITY OF EACH DOOR IS FILLED WITH RIGID POLYURETHANE.
3. CONSTRUCTION: THE VERTICAL EDGES OF THE SLAB CONSIST OF GLUED INTERLOCKING FIBERGLASS JOINTS THE HORIZONTAL EDGES CONSIST OF THE FIBERGLASS SKIN, GLUED TO THE WOOD BUCK AT TOP AND TO THE RIGID PVC FOAM INSERT AT BOTTOM.
4. GLAZING: 5/8" OVERALL THICKNESS INSULATED GLASS PANEL CONSISTING OF: TWO 1/8" TEMPERED LITES AND ONE AIR SPACE.
5. REINFORCING: ONE (1) "U" SHAPED STEEL REINFORCING CHANNEL MEASURING 1.591"x0.748"x0.079" THK. WAS LOCATED AT EACH PANEL STILE. (6'-0" DOOR ONLY)

TABLE OF CONTENTS

SHEET #	DESCRIPTION
1	GENERAL NOTES, TYPICAL ELEVATIONS
2	CROSS SECTIONS (VERTICAL AND HORIZONTAL)
3	ANCHORING LAYOUT
4	PART LIST



TYPICAL ELEVATION 6'-8" DOOR



TYPICAL ELEVATION 8'-0" DOOR

DESIGN PRESSURE RATING (TABLE #1)

	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
POSITIVE	+60 PSF	+50 PSF
NEGATIVE	-60 PSF	-50 PSF

DESIGN PRESSURE RATING (TABLE #2)

	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
POSITIVE	+80 PSF	+70 PSF
NEGATIVE	-70 PSF	-70 PSF

PLASTPRO, INC. 9 PEACH TREE HILL RD. LAWNSTON, NJ 07039

PRODUCT: DISTINCTION SERIES SMC OUTSWING FIBERGLASS DOOR PART OR ASSEMBLY: GENERAL NOTES AND ELEVATIONS

NO. DATE REVISIONS BY

RW CONSULTING (813) 684-3831

DATE 02/09/99 SCALE 3/4"=12" DWG. BY R.P.P. CHK. BY DRAWING NO. 99-05 SHEET 1 OF 4

REVISIONS :

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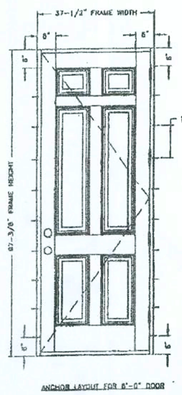
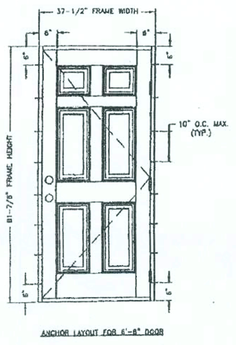
Maronda Homes

(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA



ANCHOR LAYOUT FOR 8'-0" DOOR



ANCHOR LAYOUT FOR 6'-8" DOOR

TYPICAL ANCHORS

1.) INTO 2BY WOOD BUCKS OR WOOD STRUCTURE #8 SMS, 1-1/2" MIN. EMBEDMENT

2.) INTO 1BY WOOD BUCKS OR INTO MASONRY 3/16" DIA. TAPCONS WITH 1-1/4" MIN. EMBEDMENT

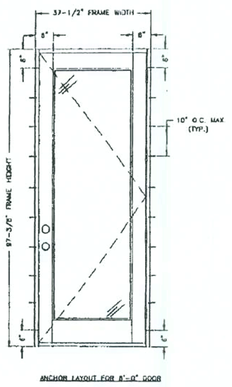
PLASTPRO, INC. 9 PEACH TREE HILL RD. LAWNSTON, NJ 07039

PRODUCT: DISTINCTION SERIES SMC OUTSWING FIBERGLASS DOOR PART OR ASSEMBLY: ANCHORING LAYOUT

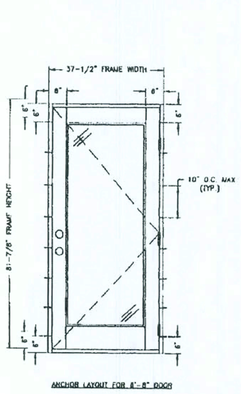
NO. DATE REVISIONS BY

RW CONSULTING (813) 684-3831

DATE 02/09/99 SCALE N.T.S. DWG. BY R.P.P. CHK. BY DRAWING NO. 99-02 SHEET 2 OF 4



ANCHOR LAYOUT FOR 8'-0" DOOR



ANCHOR LAYOUT FOR 6'-8" DOOR

TYPICAL ANCHORS

1.) INTO 2BY WOOD BUCKS OR WOOD STRUCTURE #8 SMS, 1-1/2" MIN. EMBEDMENT

2.) THRU 1BY WOOD BUCKS AND INTO MASONRY 3/16" DIA. TAPCONS WITH 1-1/4" MIN. EMBEDMENT

PLASTPRO, INC. 9 PEACH TREE HILL RD. LAWNSTON, NJ 07039

PRODUCT: DISTINCTION SERIES SMC OUTSWING FIBERGLASS DOOR PART OR ASSEMBLY: ANCHORING LAYOUT

NO. DATE REVISIONS BY

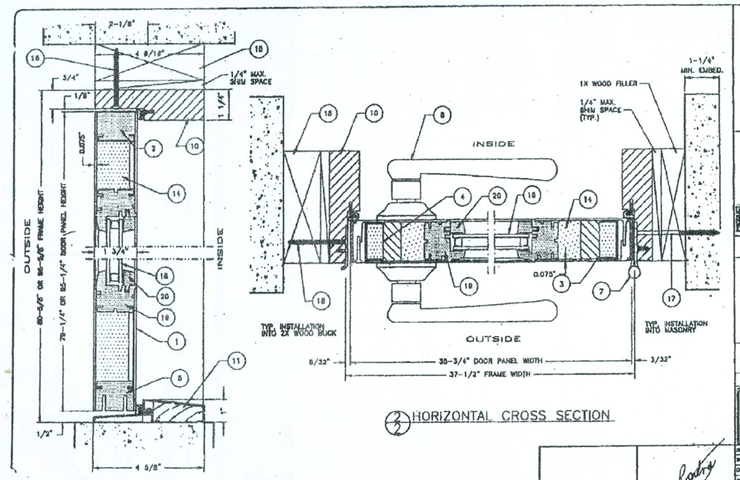
RW CONSULTING (813) 684-3831

DATE 02/09/99 SCALE N.T.S. DWG. BY R.P.P. CHK. BY DRAWING NO. 99-05 SHEET 3 OF 4

EXT. DOOR DETAILS

OUT SWING-FIBERGLASS

RELEASE DATE:



2/2 HORIZONTAL CROSS SECTION

1/2 VERTICAL CROSS SECTION

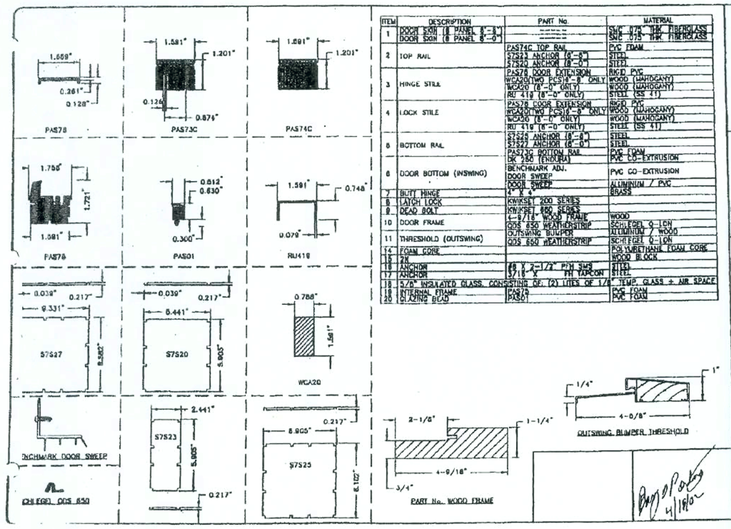
PLASTPRO, INC. 9 PEACH TREE HILL RD. LAWNSTON, NJ 07039

PRODUCT: DISTINCTION SERIES SMC OUTSWING FIBERGLASS DOOR PART OR ASSEMBLY: VERTICAL & HORIZONTAL CROSS SECTIONS

NO. DATE REVISIONS BY

RW CONSULTING (813) 684-3831

DATE 02/09/99 SCALE N.T.S. DWG. BY R.P.P. CHK. BY DRAWING NO. 99-03 SHEET 2 OF 4



ITEM	DESCRIPTION	PART No.	MATERIAL
1	DOOR SKIN (6 PANEL 6'-8")	=====	SMC 0.075" THK FIBERGLASS
	DOOR SKIN (8 PANEL 8'-0")	=====	SMC 0.125" THK FIBERGLASS
2	TOP RAIL	PAS74C TOP RAIL	PVC FOAM
		S7523 ANCHOR (6'-8")	STEEL
		S7530 ANCHOR (8'-0")	STEEL
3	HINGE STILE	PAS78 DOOR EXTENSION	RIGID PVC
		WCA20 TWO PCS (6'-8" ONLY)	WOOD (MAHOGANY)
		WCA30 (8'-0" ONLY)	WOOD (MAHOGANY)
		RU 418 (8'-0" ONLY)	STEEL (SS 41)
4	LOCK STILE	PAS78 DOOR EXTENSION	RIGID PVC
		WCA20 TWO PCS (6'-8" ONLY)	WOOD (MAHOGANY)
		WCA30 (8'-0" ONLY)	WOOD (MAHOGANY)
		RU 418 (8'-0" ONLY)	STEEL (SS 41)
		S7524 ANCHOR (6'-8")	STEEL
		S7527 ANCHOR (8'-0")	STEEL
5	BOTTOM RAIL	PAS01 BOTTOM RAIL	PVC FOAM
		SK 350 (THOROLD)	DOOR EXTRUSION
6	DOOR BOTTOM (INSWING)	BENCHMARK ADJ. DOOR SWEEP	PVC CO-EXTRUSION
		DOOR SWEEP	ALUMINUM / PVC
7	BUTT HINGE	4" x 4"	BRASS
8	LATCH LOCK	KWIKSET 200 SERIES	
9	DEAD BOLT	KWIKSET 660 SERIES	
10	DOOR FRAME	4-9/16" WOOD FRAME	WOOD
11	THRESHOLD (OUTSWING)	ODS 650 WEATHERSTRIP	SCHLEGEL Q-LON
		OUTSWING BUMPER	ALUMINUM / WOOD
12	FOAM CORE	ODS 650 WEATHERSTRIP	SCHLEGEL Q-LON
13	PE		POLYURETHANE FOAM CORE
14	ANCHOR	#8 X 2-1/2" PFH SMS	WOOD BLOCK
15	ANCHOR	5/16" X 4" FH TAPCON	STEEL
16	5/8" INSULATED GLASS CONSISTING OF: (2) LITES OF 1/8"		TEMP. GLASS + AIR SPACE
17	INTERNAL FRAME	PAS78	PVC FOAM
18	GLAZING BEAD	PAS01	PVC FOAM

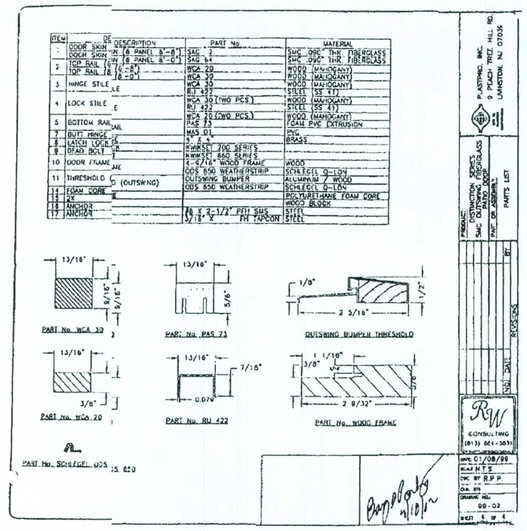
PLASTPRO, INC. 9 PEACH TREE HILL RD. LAWNSTON, NJ 07039

PRODUCT: DISTINCTION SERIES SMC OUTSWING FIBERGLASS DOOR PART OR ASSEMBLY: PARTS LIST

NO. DATE REVISIONS BY

RW CONSULTING (813) 684-3831

DATE 02/09/99 SCALE N.T.S. DWG. BY R.P.P. CHK. BY DRAWING NO. 99-05 SHEET 4 OF 4



ITEM	DESCRIPTION	PART No.	MATERIAL
1	DOOR SKIN (6 PANEL 6'-8")	SMC 0.075" THK FIBERGLASS	
	DOOR SKIN (8 PANEL 8'-0")	SMC 0.125" THK FIBERGLASS	
2	TOP RAIL (6'-8")	WCA 20	WOOD (MAHOGANY)
	TOP RAIL (8'-0")	WCA 30	WOOD (MAHOGANY)
3	HINGE STILE	RU 422	STEEL (SS 41)
4	LOCK STILE	RU 422	STEEL (SS 41)
		WCA 20 (TWO PCS)	WOOD (MAHOGANY)
5	BOTTOM RAIL	RU 422	STEEL (SS 41)
		WCA 20 (TWO PCS)	WOOD (MAHOGANY)
6	DOOR SWEEP	PAS 73	FOAM PVC EXTRUSION
7	BUTT HINGE	WCA 01	BRASS
8	LATCH LOCK	4" x 4"	BRASS
9	DEAD BOLT	KWIKSET 200 SERIES	
		KWIKSET 660 SERIES	
10	DOOR FRAME	4-9/16" WOOD FRAME	WOOD
11	THRESHOLD (OUTSWING)	ODS 650 WEATHERSTRIP	SCHLEGEL Q-LON
		OUTSWING BUMPER	ALUMINUM / WOOD
12	FOAM CORE	ODS 650 WEATHERSTRIP	SCHLEGEL Q-LON
13	PE		POLYURETHANE FOAM CORE
14	ANCHOR	#8 X 2-1/2" PFH SMS	WOOD BLOCK
15	ANCHOR	5/16" X 4" FH TAPCON	STEEL

PART No. SCHLEGEL ODS 650

PLASTPRO, INC. 9 PEACH TREE HILL RD. LAWNSTON, NJ 07039

PRODUCT: DISTINCTION SERIES SMC OUTSWING FIBERGLASS DOOR PART OR ASSEMBLY: PARTS LIST

NO. DATE REVISIONS BY

RW CONSULTING (813) 684-3831

DATE 01/08/99 SCALE N.T.S. DWG. BY R.P.P. CHK. BY DRAWING NO. 99-03 SHEET 4 OF 4

SHEET: FD2

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